American Railway Master Mechanics Association. A convention of Railway Master Mechanics was held at Gleveland, Ohio, Sept 30, at which time an organization was formed, and the above title adopted The following officers were chosen : President, Mr. H. M. Britton, of the Indianapolis, Cincinnati and La Fayette Railway; Vice-president, Mr. N E. Chapman, of the Cleveland and Pittsburg Railway; Secretary, Mr. Frederick Grinnell, of the Atlantic and Great Western; Treasurer, Mr. S. S. Hayes, of the Illinois Central Railway. A constitution was adopted and signed by the gentlemen present, a large number of railroads being represented. A Committee on Order of Business was appointed, which reported the following subjects for discussion:

1. Are steel plates preferable to iron in the construction of locomotive boilers, and if so will the difference in strength, durability, and safety, justify the excess of cost of steel as compared with the cost of the best iron?

2d. What should be the thickness of steel or iron plates when used in the construction of the outside shell of a fortyeight inch boiler? Also the best and strongest mode of riveting and bracing the same?

3d, What water space is deemed best upon the sides and ends of a furnace, b th for wood and coal burning engines?

4th, How does the durability of steel for furnaces and flue sheets compare with that of copper or best iron? 5th. What space should there be between the flues so as to

obtain the greatest absorption of heat? 6th, What size flues and what length will give the best re-

sults in wood and coal burning engines? 7th, What is the experience of the different master me-

chanics as to the wear and tear of steel tires now in use on their respective roads?

8th, What are the views of this convention on the subject of packing for cylinder and stuffing boxes?

9tb, What are best modes of preventing the formation of lime and other incrustations in boilers?

10th, What is the opinion of this convention as to the present system of safety valves, levers and fixtures upon locomotive and other boilers—is it the safest and best?

11th, Would not the adoption of a "lock up valve," that could not be interfered with by the engineer, tend to the prevention of explosions now so frequent?

The following committees were appointed 'to report upon these subjects at the next meeting:

On the articles 1st to 6th, inclusive, Messrs. Hayes, Jauriet, and Anderson; article 7th, Philbrick, Eddy, and Perry ; article 8th, Brown, Chapman, and Smith ; article 9th, Dripps, Towne, and Ray; article 10th and 11th, Stone, Young, and Wells.

On motion a committee of three-Messrs. Kinsey, Cooper, and Congdon-was appointed on valves anti-iriction, size, etc. Messrs. Losey, Callen, and Little, were appointed a committee on the explosion of boilers.

After the transaction of some minor business, the meeting adjourned, to meet at the shops of the Pennsylvania Central Railway at Pittsburgh, Pa, on the second Wednesday of September, 1869.

Adulterations in Vinegar,

The Prairie Farmer, has the following on adulterations in vinegar: Since the great increase in the price of high wines. on account of the heavy tax imposed by the Government, there has been a disposition, on the part of vinegar manufacturers, to produce the requisite degree of acidity by means of a cheaper substance than acetic acid, which forms the acidity of all pure vinegar, and which can only be produced by the oxidation of alcohol. Sulphuric, nitric, and hydrochloric acios are all en proyed for this purpose, but in the great majority of cases, the former is used, on account of its extreme cheapness and its intense sourness.

This acid may be detected, even in extremely small quanti'ies, by taking a portion of the suspected vinegar, placing, it in a clear glass vessel, and dropping into it a few drops of a solution of the chloride of barium, or the nitrate of barita If the vinegar remains clear after the introduction of this substance, it is sufficient proof that it contains no sulphuric acid. If, on the other hand, the liquid presents a cloudy appearance, it is on account of the formation of the sulphate of barita, which will remain insoluble, whatever acid may be afterwards added.

The detection of nitric acid is not so easy. It may be discovered, however, by first adding to the vinegar placed in a wine glass, a few drops of sulphuric acid, waiting a few minutes for the mixture to cool, and then dropping in a crystal of the sulphate of iron, or copperas. If nitric acid is present a brown ring will form around this substance in the

THE first mill in America for making sewing silks and twists by water was built by Rodney Hanks, in Mansfield, about fifty-eight years since. The first silk made by machinery in the United States was made in 1829, in Mansfield In 1814 silk rose to \$30 a pound. The c-nsus of 1810 gives us the value of the silk manufacture and raw silk of Massachusetts and Connecticut for that year -\$29,121. In Windbam County, Connecticut, the value of these products in 1825 was \$54,090. In 1831 Mansfield produced 84,000 worth of silk.

Can Any One Beat This?

OLD SAYBROOK, CONN., Sept. 26, 1868. MESSRS, WHEELER & WILSON:

Gentlemen :-- I wish to say that I have in my family a Wheeler & Wilson Sewing Machine," that has been in almost daily use for the past ten (10) years, and not a thing has ever been done to it in way of repairing; not a screw loose, or any part of it out of order in all that time. It has been used in making coats, vests, and pants, of the thickest of woolen goods, beside doing all kinds of family sewing, and is now, this day, the best machine for work I ever saw.

Can any one beat this? Respectfully,

GILBERT PRATT. Any one who can beat this (and we think many can), will please address Messrs. WHEELER & WILSON, 625 Broadway, New York.

OFFICIAL REPORT OF PATENTS AND **CLAIMS**

Issued by the United States Patent Office.

FOR THE WEEK ENDING OCTOBER 20, 1868.

Reported Officially for the Scientific American.

PATENTS ARE GRANTED FOR SEVENTEEN YEARS, the following being a schedule of fees: -

Un aling each Usvest	51C I
On hing each Cavea: On dling each application for a Patent, except for a des. ex	615
On 'ssung each original Patent	320
Or appeal (oCommissioner of Patents	820 !
On application for Reissue	630
On application for Extension of Patent	
On granting the Extension	350
Or fling a Disclaumer	10
On fling application for Design (three and a half years)	\$1C
On fling application for Design (seven years)	315
On fling application for Design (Yourteen years)	3 30
In addition to which there are some small revenue-stamp taxes. Residen	168
of Canada and Nova Scotia pay \$500 on application.	

IF Pamphletscontaining the Patent Laws and full particulars of the mod of apply ng for Letters Patent, spec fy ng s ze of model required, and much other nformation useful to Inventors, may be had gratis by address ng MUNN & CO., Publ shers of the Sc entific Amer can. New York.

83,124. -CAR-COUPLING.-George S. Acker, Kalamazoo, as-

83,124. — CAR-COUPLING. — George S. Acker, Kalamazoo, assignor to bimselt and H. A. Lacey, Jurtont, Mich.
1 claim the plates, J and K. thimble, L. hasp, M. and channel, N. in connection with the link, it, and pin, D. and draw bar, A when arranded and operating substantially as and for the partpares set 1.0.1.
83,125. — BOILER SAFETY VALVE. — Edward Andrews, Pottsville Pa. Ant-dated October 9, 1868.
1 claim, 1st. The arrangement and combination of the balanced valve. E, with the valve, J, lever. H, plston, K, and voke D.
2d The arrangement of the box, B, inclosing the valves, J and W and lever. H.
83, 26. – INKSTAND.—H. P. Andrews, and M. E. Rawson, Cleveland, Ohio.

Cleveland, Ohio. We Claim, 1st. An ink-levating elastic air sack, constructed with a perfo-rated corking end. which is of thicker material than the body of the sack.

rated corking end, which is of thicker material than the body of the sack, substantially as described. 2d, the horizontally siding cover, D, pressure plate, F, one or more alr chambers, E, and oue or more ink reservoirs, G. combined and operating sub-turitally as described. 3d, The cover, D, pivoted at b. and extended into a lever beyond said piv-oted p circ, and connect d with a laterally rocking or rolling plate, F, sub-stantally in the manner described 4th The ink reservoirs, G, G, in combination with a "ase. A which is pro-vided with a removablet p and means for effecting the ransing of ink into supply cours by the movement of a single cover to said coups, substantially as described.

decarbed. Backet Back and Backet Bac

beth, N.J. I claim the hollow wheel, B, pawi, t, with its arms, r and s, is combination with the hollow wheel, B, pawi, t, with its arms, r and s, is combination with the hear circular tumblers, and the case, A, all constructed and ar-ranged to operate in the manner and for the nurnose set for¹¹. S3.130 — PLOW FOINT, - Lyman ID. Burch, Sherburne, N. Y. I claim, 1st, The ribs or braces, D, D1, and D2, constructed and operating scussat failly as described. 21, The stays, E and E', constructed and operating substantially as de-scribed

83.131.-SAW FRAME. - Beauman Butler, and Charles F.

30.151.—SAW TRANT. Detauntal Dutter, and Charles T. Ramsay, St. Johnsbury, Vt. We claim, 1st, The saw frame, constructed substantially as above describ-ed with a rigid et d, A 'C E, and a flexible end. B C E'. 2d, The provision, in a buck saw frame, of the spring or cushion, G G', sub-stantially as and for the burpose set forth. 3d, The slotted ears, II, or the'r equivalent, employed to connect the cross bar and end piece, and permit mutual play between them, substantially as described.

described. HOSE AND MACHINE FOR MAKING HOSE - GO

83,137.-LOCK FOR TRUNKS, PIANOS, ETC. -C. N. Cutter (as-

signor to Davis, All & Co., Wore-set, Mass. 1 claim, 1st. The combination, with the face plate, D, of the hinged tongue C, substantially as and for the purposes set forth. 2°, The combination, with the face-plate, D, of the hinged tongue, C and spring. E, substantially as and or the purposes set forth. 83.138.- TRACK LIFFRER.-Charles De Bergue, Westminster, Grant Particular

67. at Britsh. Griat Britsh. I chaim the within described instrument, consisting of the metal bed plate, s, bivot-d lever, s, and operating ser. w, e, the whole constructed and oper-ating substantially as and for the purpose herein set forth. 83.139 - STOVE-PIPE DAMPER. - William H. Deily, Syca-

more, Iil. I c alim the two partcase, formed by the parts, A and M, having flauges, DB, for supporting the joints or ppe, and a recess inside, in which a camp-er, H, is made to operate for regulating the drait, substantially as and for the urpos set forth. 83,140.-Nozzle FOR CANS.-Frederick W. Devoe, New

Fork city. Iclaim, 1st, The plate, C, made separate from the nozzle and can, in com-unation with the hozzle and the can, substantially as and for the purpose

breat specified. 2d, The box formed wit' in the nozzle by the closed bottom, C, and the cap or stopper, substantially a therein described.

83,141.—CLOTH DRAWERS - Job Dyson, New Britain, Conn. I claim cloth dr.wers made by forming each half or leg portion in one piece, with the seam down the back of the leg, and an opening, B, suitably needed to form the body connection of the two legs, substantially as shown located to form the body connection of the two legs, substantially as shown

83 142 — RAILROAD-CAR HEATER.—John C. Eckert, Dayton,

O to. I claim, lst, The knob or trigger, N, in combination with the vase, for the propose set forth. 20, The inner catch, T, with the shutter, P, its spring, S. and arm, Q, as herein d. scribed and shown. .3d, The failing door or shutter, C. and spring, E, acting in combination with the sloi. D, the lever, F, and slide, G, arranged to operate substantial-ly as herein . escribed, and for the purposes set forth. 83.143.—PAPER CUTTING MACHINE.— Spencer Ellsworth, Lacon 10

83.143.— PAPER CUTTING MACHINE. — Spencer Ensworth, Lacon, Ill.
I claim, 1st, The combination of the bar or way, C. the sliding carriage, D, the vertically adjustable knife, K, and screw, S. Ill "trained, constructed, and operating in the manner and for the purposes herein set i rts.
24, The combin ation of the war, C, provided with the grooves, c, the car-riage, D, provided with the rb, b, and adjustable rb, d, and the screw, L, all arranged to operate in the manner and for the purposes ad, The combination of the bar, C, carriage, D, kulle, K, screw, S, mova-ple rb guid., a, and screw, L, all arranged in the manner and for the pur-poses specified and shown.
4th, The combination of the bar, C, frame, A, rods, F, springs, G, treadle, N, and toothed plate, P, arranged to operate as specified, and for the pur-poses, set forth.
83 144.—I'EMMUTATION LOCK.—William F. Ensign, Troy, N Y.

N Y. I claim, in combination, the interlocking of the wheels or tumblers, and cosing of the gateway in the wheels by the slides, as shown and described. 83,145.—WASHING MACHINE. -Robert E. Ferguson, Chicago,

83,146. COMBINED SKIRT AND HOSE SUPPORTER.-Maria J.

F. ss. (harlestown, Mass. I olam the skirt-supporter, B, to which are attached the hose supporters, D, the latter being provided with hip pads, c_{s} and the whole being combined and arranged substantially as set forth.

and arranged substantially as set for (h. 83.147. — MACHINE FOR CARBURETING AIR. — Theodore F. Frank, Buffalo, N. Y. I claim, Ist. An upright cylindrical vessel forming the carbureting cham-ber, D. regulating compartment, G, and waver tauk, I, containing the air drum, H, arranged respectively one above the other, and with the support-ing frame, A A'B, and operating weights, WW, substantially in the manner and forth. 20, The combination and arrangement of the elevated pipe, b, with the regulating vessed, G G, substantially as and for the pqi pose pecified.

20, The combination and arrangement of the elevated pape, when the regulating visual, G G, substantially as and for the pdp pose specified. So 148, -57 ... NT KNIFE. - Samuel Friend and John McCollion, D-catur, fil. We chaim the construction and arrangement of the stock, A, flat rectangulark if eblade, B, secured thereto by means of the stirrups, ... a, and a digated by means of the stirrup, ... a, and a digated by means of the stock, A, flat rectangulark if eblade, B, secured thereto by means of the stirrup, ... a, and a digated by means a digated by means of the stirrup, ... a, and a digated by means and the stirrup, ... a, and a digated by means and the stirrup, ... a, and a digated by means and the stirrup, ... a, and a digated by means and the stirrup, ... a, and a digated by means and the stirrup, ... a, and a digated by a digated

and guiding the spints, as no or Hannah C. Gaskin, Union 83,149.— PLASTIC COMPOSITION.—Hannah C. Gaskin, Union Vale, N Y. Iclaum, 1st. A plastic composition of flour or starch, treated substantially as described, in c mbination with glue, resin, guid, or other equivalent

as d. socioed, in c. moination with glue, resin, gum, or other equivalent subsrance, as described. 2d, The new article of plastic manuf.cture, substantially as described, 83,150. — IteIn HOLDER. Lorenzo D. Gillett. Rochester, and H. nry W. Imman, Detroit, Nuch. We claim the construction of a rein holder, with bed plate A, curved lever, F, and spring, D, arranged and operating substantially as herein de-scribed.

83,151.—SRED PLANTES.—John M. Gitchell, Haverhill, as-

83,151.—SRED PLANTER.—John M. Gitchell, Haverhill, assignor to J. F. Morse, North Haverhill, N. H
I claim for eff-cting the recip.ocating movements of the stider F, by means of the wheel or roller, H. the combination of the vibratory frame, G, the pulleys, the crait was shared and the pitunan, arranged with the stider, the wheel shaft, and the bitman, arranged with the stider, the wheel shaft, and the bitman, arranged with the stider, the wheel shaft, and the bitman, arranged with the stider, the wheel shaft, and the bitman, arranged with the stider, the wheel shaft, and the bitman, arranged with the stider, the wheel shaft, and the booper, in manner, and to operate with an endiess oand or chait, substantially as specified.
83,152.—MANUFACTURE OF SHOT.—William Glasgow, Jr., and John G. Wood, St. Luis, Mo.
We claim. 1st. The method user in described of producing shot, consisting substantially in dropping the metal, in a molter state, througn a column of glycerm, oil, or other shot shall first impinge up. In the heated portion of the medium, and use quickly cooled by its desce time to the cooler por into of the sume.
St. The employment of an adjustable h aring appartus, so arranged and operating as and for the purpose set forta.
4th, Tse construction of the cooling reservoir with a lateral branch for the withdrawal of the shot, substantially as herein shown and described.
83,153.—BILLIAND TABLE.—Karl Gudenoge, San Francisco,

83,153 .- BILLIARD TABLE .- Karl Gudenoge, San Francisco,

Cal. I claim the construction of a billiard table by the arrangement of the lon-tinudinal slats, a a, transverse slats, b p. long/tudinal rails, c c c, and altergitudinal slats, a a. **PARSVETS** slats, b.), log'studinal rais, c.c., and alter-nate wide boards or pieces, $a \ d$, placed eugewise, and held by the trans-verse bars, e.e., or equivalen's, substantially as a d for the purpose de-scribed, in combination with the papier maché or pasteboard .ed, A, applied ard prepared as specified.

83.154 -COMBINED PLOW AND HARROW.-Jacob Haessel, St. Louis, Mo. I claum the arrangement of the harrows, D, vith the plow, A B, in the manner shown and described.

83,155-CORN HARVESTER.-John D. Hampshire, Paper

83,155 — CORN HARVESTER. — John D. Hampshire, Paper Mills Post Office, Md.
1 claim, 1st, The circular saw or cutter, E, perforated with holas, k, and arrangen in connection with the spring bar. O, bar, Q and discharzing bar R, to operate in the menner substantially as an i for the purpose set forth 2d. The bow, U connected with the escarging bar, R, ann arranged to operate no other with substantially in the manner as and for the purpose set forth.
3d, Thereel, M, in combination with the circular saw or cutter, E, arranged to perate substantially as and for the purpose specified.
4th, The combination of the saw of cutter, E, reel, M, spring bar, O, bar, Q, discharging bar, G, and dow, U, all Arranged to operate in the manner signation.
Substantially as and for the purpose storth.
Substantially as and for the purpose specified.
4th, The combination of the saw of cutter, E, reel, M, spring bar, O, bar, Q, discharging bar, G, and dow, U, all Arranged to operate in the manner signation.
Substantially as and for the purpose stantial of the purpose stantially as an for the purpose stantially as and for the purpose stantial of the purpose of the the purpose stantial of the purpose stantis of the

83.156 - AUGER HANDLE - T. C. Hendry (assignor to himself

and R. B. Smin, Union Point, GA. 1. C. Hentury (assigned to influence and R. B. Smin), Union Point, GA. 1, formed by two tubes, a and b, crossing each other, with the handle, B, made adjustable in the socket, b, and the augershack.c having a ratchet thereon, extending up through the one a, and handle. B, all constructed and arranged substantially as and for the purposes herein specified.

present, a brown ring with form around this substance, in the	US, ON HOBE, HE WHOLEHE FOR LEWER FOR SOME	83,157FASTENING FOR CHECK HOOKS AND TERRETSA.
bottom of the glass.	(oles, London, and James Archivald Jacques, and John Americus Fan- shawe, Tottenham, E. gland. Patented in England August 17, 1864.	
To detect hydrochloric or muriatic acid, we have only to	We claim, 1st, As a new article of manufacture, flexible hose, when con-	I claim the screw, B, with a nat head, D having its corners, a, turned up- wards, and used for connecting the terret or check nook, A, when said terret
bring the suspected vinegar to a moderate heat, and to hold	struct d substantially as and for the purpose specified. 2d, The apparatus, constructed 39 describen, whereby alternate layers or piles of yarn on t read are laid h lically round the core in opposite direc-	or houk is provided with a female screw in the shank, all substantially as herein shown and described.
over it a glass rod or shaving of wood, moistened in aqua am-	tions, as herein set forth and shown.	83.158.—SERDING MACHINE—Frank A. Hill, Marysville, Cal.
monia. If this acid be present, it will form white fumes as		I claim the frame, A, provided with the shares or teeth A, in combination with seed box, D, provided with the toot ed shafts, E E. rotated in opposite
the two substances come in contact, forming, as they do, chlor-	L. Coles, and David H. Coles, New York city. We claim, .st, The cam slide, C, in combination with the feed bar, A, sub-	directions from the wheels. B B, and also provided with the fixed and adjusta- ble perforated plates, evi, all arranged to operate in the manner substantially
ide of ammonium, or sal-ammoniac.	stantially as and for the purpose described. 2d. The feed bar, A, in combination with the cam slide, C, constructed as'	as and for the purpose set for th.
Ordinarily, however, it will only be necessary to test for	described, and its mechanism for adjustment, as and for the purpose set	83,159.—RAILROAD AXLE.—George H. Hoagland, Port Jer-
sulphuric acid; but this should always be done before using	Sd, The adjusting screw, G, in combination with the cam slide, C, and feed bar, A, substantially as and for the purpose described.	vis, N. Y. Antedated October 10.168. I claim a wrought iron axle, construct d with steel journal cusings, exten- ding ab ut midway into theeye of the wheel, substantially as and for the
vinegar, as this acid is very injurious to the health, and ex	83,134.—SNAP HOOK.—Edward A. Cooper. Buffalo, N. Y.	purposes specified.
ceedingly liable to destroy substances placed in it to be pre-	I claim the hook, A . cast with hinge pin, e , and cross b r, h, in combina- tion with the grooved tongue, D , and how spring, h, when the parts are ar-	
served, as pickles. A few cents' worth of the substance we	ranged and secured together in the manner described.	I claim, 1st, The toy, consisting of the sett sustai ing pendulum, A B C, and of the figures or images, E E, having loose swinging limbs or part, F F, at-
have recommended under this head, is sufficient to test all	83,135 VENTING COBEGeorge G.Cressey, Philadelphia, Pa	tached thereto, so that constantly varying pictures and positions are pro- duced, substantially as d scribed.
the vinegar which would be used in a family for many years.	Antedated October 8, 1868. I claim the box. E, its place, G, and prints, H, in combination with the	2d, T e pin, c, when proviet with the fastent g arms, d, and when secured
The ch-apness of sulpburic acid is so great that vinegar may	sliding plate, F, and its point d wires, K, and the mechanism herein de- scribed, or its equivalent, for imparting the desired movement to the said	to the images, E, to suspend the limbs, F, as specifica. 3d, The disk, D, when provided with $\frac{1}{2}$ sock t, or with its equivalent, the
be made from it—or, rather, a substance that passes by the	minten i	epring, g, and when so arranged that figures or images, E, can be easily fus- tened to and removed from it, as specifie i.
name of vinegar-for only a cent or two per gallon. That it	83.136.—BOAT DETACHING APPARATUS.—Inomas L Cuth-	4th, I ema ner berein shown and described of fastening the sustaining
· · · · ·	best, of all the start of absighter to himself it attained her in, and	tlates. G, to the figures, E, by cutting p mied pinions, h. cut of the former, and fastening them to the figures, as set forth.
is so made, is evident from the fact that carboys of sulphuric	I claim the "marinecradle," by which ships' boats or yawls may be low-	5th 1 he manner berein shown and described of suspending the mem a Fs, F, from the figures, E, by tas ening tubes, i, to the tigures, and pins, j, to
acid are to be found in most of the manufactories of "pure		the members and securing and arranging all as herein shown and de-
cider vinegar," in this as in other cities.	fect.	scribed.

83,161.-FEED WATER HEATER FOR STEAM BOILERS.-B.A.

300

Hopkins, Sodus, N. Y. I claim the exhaust pipe, C c, and cold water pipe, E, in connection with tank, D ds, constructed, arranged and operating as herein shown and de-scribed, and for the purposes of forth. 83,162.-STEAM GENERATOR. - Frank M. Horning, East

83,162.—STEAM GENERATOR. — Frank M. Horning, East Pike, N. Y.
I claim, ist, The scroll sheets, u, in combination with the firebox, A, and air vessel, B, whereby the air from the latter is heated before being discharged into the fire tox, substantially as berein show and described.
2d. The port, J, constructed as escribed, and containing thefuelbox, K, in combination with the pipes, L N, fire box, A, and air vessel, B, operating substantially as described, to eupply fuel to the fire box.
3d. The bot-air pipe, V, having the cap, I, and perforations, 2, arranged with relation to the furnace, A and pipe, F, whereby to separate the ashes from the beated gase, so that the former will not be forced into the generator, substantially as here in shown and described.
4D, The arrangement of the hot air pipe, V, within the water supply pipes, whereby the former is protected by an annular sheet of water, substantially as here in stown and described.
5th, The spiral blades, x, arranged as described, within the generator, substantially as here in stown.
83,163.—V ENTILATING FRUIT HOUSES.—J. S. Houghton and Charles B. Rees, Philadelphia, Pa.
We claim the combination and arrangement of the open spaces or flues, B, in the walls, A, with the preserving room, B, and ventilatedlott, D, subtantially as described.

tially as described. 83,164.—HARVESTER.—Henry Howe, Oneonta, N. Y.

Co, 104. — HARVESTER. — HEILY HOWE, Oliconita, N. I. I claim the pinions, a b, hung loosely on the ends of the counter shaft, E, and connected respectively with the sliding spring clutches, c d, or their equivalents, and mesbing into the internal gearing of the eriving wheels, C and D, respectively, the pinion, a, on the opposite side of the cutting appa-ratus, being smaller than, b, substantially as described, for the purpose of balancing the strain of the machine and for allowing it to cut when it turns a corner, as specified.
83,165.—VAT FOR CYLINDER PAPER MACHINES.—Amasa Howland, Sandy Hill, N. Y.

83,165.—VAT FOR CYLINDER PAPER MACHINES.—Amasa Howland, Sandy Hill, N. Y. I claim, Ist, The construction of my improved vat, for the purpose and in the manner above set forth and described. 2d, The introduction of the pulpy fluid in such a manner as to create cur-rents across the under or lateral surface of the gathering cylinder, substan-tially in the manner and for the purpose above described. 83,166.—CHIMNEY COWL.—B. Irrgang, Philadelphia, Pa. Iclaim a ventilator or cowl, having incifeded dges, and shields projecting from the cowlat the sides of the doors, all substantially as and for the pur-pose described.

83,167.—Mode of Putting up Starch for Use.—Alexan-

der Irwin, Matison, Ind. I claum forming the wet starch into cubical packages, of uniform size and analweight, as a new process of manufacture. -Saw Filing Machine.-D. H. Iseminger, Mc-83.168.

Lean, II. I claim the construction and arrangement of the bar, a, swivel mechan ism, d e e, slottedplate, f, guide rod, g, arm, h, and file stock. Kn i, all oper ating as described, in connection with the saw clamps, B B. for the purpose specified.

specified. 83,169.—STEAM GENERATOR.—Ralph H. Isham, Brooklyn,

83,169.—STEAM GENERATOR.—Kalph H. Isnam, Brookiyu, N.Y.
10 am the construction and combination of the box distributer, B, and tube, C, with the coiler, A, substantially as set forth.
83,170.—CARRIAGE SPRING.—John Jackson, Owego, N. Y.
11 Claim the combination of the twist of steel, the circular arm, the strayor chain for the arm to play on, the ratchet wheel and lever to adjust or change the power of the spring to carry either a light or heavy load.
83,171.—VAPOR BURNER.—W. W. Jacobs, Hagerstown, Md.
12 Iclaim, 1st, The annular wooden disk, C, secured between metallic plates, h, to the generator, F, as herein shown and described, whereby the said generator, F, not being conducted by the disk, C, and metallic plates, J, wick tube, E, annular wooden disks, C, and metallic plates, J, wick tube, E, annular wooden disks, C, and metallic plates, J, wick tube, E, annular wooden disks, C, and for the purpose set forth.
82 172.—WACHTNE FOR MOLDING, ROUNDING, AND CHANNEL-

-Machine for Molding, Rounding, and Channel 83.172.

and for the purpose set forth. 83,172,—MACHINE FOR MOLDING, ROUNDING, AND CHANNEL-ING SOLES OF BOOTS AND SHOES.—Albert Jeffers, Lynn, Mass. I claim, 1st, The combination, in an organized machine, of mechanisms for molding and channeling and rounding a sole, under the arrangement, and for operation, substantially as herein set forth. 2d, As a means of molding a sole, the combination of the molding block, w, and the emporting last or Ded, z, the former being supported by and swiveled to the sliving frame, b, and operated by the cam groove, u, or its equivalent, and the latter provided with a series of points or spurs, b bl.etc.; the whole being substantially as hereinbefore referred to and explained. 3d, For actuating the movements of the sliding frame, b, the combination of the weight or its equivalent, applied as described, with the cam groove and the tripper, s, essentially as explained. 4th, in combination with the cam groove and tripper last mentioned, the employment of the deflector, n2, applied and operating in manner and for the upropes a before explained. 5th. For effecting the alternate movements of the screw, and as a conse-quence the screpting in connection with a collar, gl., revolved by the endless belts, it l, and adjusted and controlled by the shipping bar, ml, and its adjuncts, for the purpose as herembefore referred to add explained. 6th, In combination with the last described arrangement of parts, the em-ployment of the locking bolts, r2, actuated by a suitable device, the purpose of such bolts being a before explained. 7th, The head stock of the machine, as composed of the segmental dove-tailedblock, sl, the supporting lever plate or carriage, the blate or car-riage, vi, the swiveling plate, xi, the carriage, zi, and the tool carrier, g2, under the general combination and arrangement as before alludoted to and de-corlided.

under the general coablination and arrangement as before alfuded to and de-scribed. Sth. The mode of applying the carriage, zl, to the swiveling plate, xl, be-fore described, that is by means of the could springe, as as, applied to, the shaft, as explained, the latter being provided with the layer or handle, in manner as before set forth; and, in combination with the syring, as as, shaft, e2, and handle, e2, the employment of the bent spring, 12, in manner and operating as before explained. 9th, I claim applying the cutter head, n2, to its supporting carriage, in such manner as to turn it nto a vertical position, or to remove it from contact with the bed, x, essentially as described. 10th, In combination with the swiveling plate, xl, the employment of the friction rollers, y2 y2, for the purpose of maintaining the cutting knife, k2, parallel to the edge of the bed, x, as before explained. 84-173.—SCREW SOCKET FOR BRUSH HANDLES.—Wm. H.

Parallel to the edge of the bed, x, as before explained.
84,173.—SCREW SOCKET FOR BRUSH HANDLES.—Wm. H. Johnson, Philadelphia, Pa.
Iclaim a cast screw socket having a flange, a. ears, c c, and longitudinal ribs. e, to be inserted in the body of the brush, substantially in the manner hereinbefore described, and for the purpose specified.
83,174.—CARRIAGE BRAKE.—Samuel D. Kimble, Allegheny Guy, Pa.

83,174.— CARRIAGE DRAME. Current Cuty Pa. Cuty, Pa. I claim the disk, A, and notched wheel, A2, with the levers, B and B', when connected with the hub. A. and axie tree, R, as described, in combination with the crank lever, D, levers, C and C', strap, E, cords, El and E2, and neck yoke, G, with its devices, when constructed, combined, and arranged, sub-tantially as herein described and for the purpose set forth. Device a straight of the strap of th

yoke, G, with its devices, when constructed, combined, and arranged, sub-stantially as herein described and for the purpose set forth. 83,175.—HORSE HAY FORK.—Jesse B. Kurtz, Davisburg, Pa. Iclaim the center time, A, provided with the side times, C C, in combination with the knife, H, constructed substantially as shown and described, and operating agandfor the purposes herein set forth. 83,176.—RAIN-WATER CUT OFF.—Robert S. Laird and Wm.

F. Stone, Sandwich, 111. We claim the combination and arrangement of the hinged pipe, C. slide, D. and flanged plate, F. provided with two nozzles, m. all corstructed, ar-ranged, and operated for a direct lateral movement, in the manner and for the purpose set forth.

the purpose set forth. 83,177.—METHOD OF WELDING TIRES.—Isaac Lamplugh, Peoria, Ill. Antedated October 3, 1868. I claim the combination of the tire, A, provided with a V-shaped noteh at each end, within which is inserted a diamond shaped plug. B, which is welded to and forms a part of the tire, in the manner and for the purposes set for the. 83,178.—FRUIT GATHERER.—Chas. F. Lang, Venedy, Ill. Lealing the combination of the head nicce. A', hooks, a, sliding head, C,

claim the combination of the head piece, A', hooks, a, sliding head, C oks, c, guides, D, operating haudle, E, and pouch, B, substantially as and

for the purposes s MANUFACTURE OF CARD CLOTHING.—Ed. S. Law-83.179.

I am also aware that alkaline silicates have been used to fix mordants in-tended for dyeing, and that even they have been proposed to be used cool, and stronger than in the usual way of using them as cow dang substitutes, but what, to the best of my belief, has not been done is the simultaneous fix-ug of ordinary mordants and indigotine colors by alkaline silicates, and 1 therefore claim their use for this purpose, to whatever manner they may be emplored. and but

83,183. -SHIFTING BUGGY TOP.-Thomas Lodge, New Lis-83,183.—SHIFTING BUGGY TOP.—Thomas Lodge, New Lisbon, Ohio.
Iciam the spring levers, G G, in combination with screw hook, F. button or bead, F', handle, B, frame, C, standards, B. and angle irons, E. on seat, A, all constructed to operate in the manner substantiality as described.
83,184.—FENCE.—Obadiah Love, Saxenburg, Pa.
I claim the fence above described. consisting essentially of the rails, A A, posts, B C, hasps, D D, and staples, E F, all said parts being constructed and combined together in the manner and for the purposes set forth.
82185. Durupping FOOM HAPWGERER.

83,185.—DIVIDER FOR HARVESTERS. — Joseph J. Lurvey, North Prairie.

North Prairie, Wis. I claim the described divider when constructed of the biurcated part and the vibrating cutting arm, the whole being attached and oberated substan-tially as and for the purpose set forth. 83,186.—ROTARY STEAM ENGINE.—W. I. Lyman, Spring-field, Mass. I claim the arrangement of the ports, B and B', on each side of the chest, with the four armed piston hinged centrally, and head, C, substantally as herein shown and described.

herein shown and described. 83,187.—RoTARY CTLTIVATOR.—Stephen Mahurin assignor to himself and William Montgomery, Clayton, Il. I claim, 1st, The rotary toothed shafts, C, two or more, in combination with the reciprocating toothed bar, E, operated from one of the shafts, C, substantially as and for the purposest forth. 2d, The combination of the reciprocating toothed bar, E, with the slot, g, in thefront side of the hopper, F, and the adjustable slide, b, attached to the purpose specified, all arranged substantially in the manner as and for the 2d One hormore it is a substantially in the manner as and for the purpose specified.

urpose specified. 34. The harrows, H H, attached by hinges or joints, j j, in combination with he rotary toothed shafts and the seed distributing apparatus, all arrang ed ubstantially as and for the purpose set forth. substantially as and for the purpose set forth. 83,188.—PISTON FOR STEAM ENGINES.—H. N. J. Mansfield,

83,189.-

55.188.—PISTON FOR STEAM ENGINES.—H. N. J. Mansheld, Malone, N. Y. I claim the construction of the piston head for horizontal cylinders, with the projection lip, A, and indention, A', near its periphery, whereby to ob-am upward pressure of steam. all substantially as herein set forth. 33,189.—WHEEL BARROW.—E. B. Marshall, Atlanta, Ga. I claim the springs, D, made of wood, iron, steel, or other suitable material, ind attached to vehicles of any description, substantially as and for the pur-poses herein set forth.

83,190.—STATION INDICATOR.—E. B. Marshall, Atlanta, Ga. I claim the movable and reversable rim, A, when so arranged, with the names of the different stations inscribed upon it, and in combination with a clock, that said clock will show at a glance when the train or conveyance is due at any or all stations on the road, substantially as and for the purposes herein set forth.

The statistic of the provide the road, substantially as and for the physics 83,191.—BRICK MACHINE.—James Martin, Jersey City, as-signorto Henry Martin, Keyport, N. J. I claim the arrangement and combination of the rock shaft, Ex, spring pawl, H, lever, D*, and G, and rods or connections, h C*, with the lever, I, substantially as shown and described for the purpose specified. 83,192.—APPARATUS FOR STORING PETROLEUM.—Ignace Mathei, Antwerp, Belg'um. I claim, ist, The herein-described method of storing or warehousing pe-roleum, mineral olis, and other liquids, by the employment of a series of in-clined planes, arranged in a reservoir or basin of water, substantially in the manner shown and set forth. 2d, An apparatus for warehousing petroleum and other like liquids con-structed substantially in the manner herein described. B3,193.—INSTRUMENT FOR ATTACHING BUTTONS TO FAB-

83.193.—INSTRUMENT FOR ATTACHING BUTTONS TO FAB-

FIGS.—Herrman Mauch, Providence, R. I. Iclaim the arrangement of a spring, B, with a side opening in the jaw, operating substantially as and for the purpose specified. Also, the combination of the sliding die, C, with its spring, F, and the spring, B, substantially as described.

Also, the combination of the simpling tie, o, with is spring, r, and the spring, B, substantially as described. 83,194.—DOUBLE-BARRELED FIRE ARM.—Edward Mayn-ard, Tarrytown, N.Y. I claim two or moreseparate gun barrels, so united and attached together, by means of a projecting ring, plate, stapic, or other equivalent device, firm-ly secured to one barrel, and embracing or entering the adjacent barrel, or a ling or plate projecting therefrom, as to allow any one of them to expand and contract longitudinally, independently of the other, wthout changing or affecting the relative position of their axes, substantially as herein set forth. 83,195.—BRACKET AND RACK.—William A. Middleton, Har-rishurg, Pa.

83,193.—DRAUGET AND HAVE.— ,, many in the two series of arms, a slow of the orbital transmitter of the state of the sta

plained. 2d, Jointing to gether two or more of my improved beams, in substantially the manner herein described, so as to make them mutually support each

the manner herein described, so as to make them mutually support each other. 3d, The flanges, D, for supporting the flooring, F, in the manner specified 4th, In combination with a beam or girder, constructed as set forth in the first clause, the bolt or key, H h, an phed and operating as explained. 83,197.—FARM GATE.—Peter Mougey, Marshallsville, Ohio. I claim, ist, The operating gate plate, M, when constructed with a central hole, of the same shape and nearly the same size as the cross section of the gate post, C, and used around said gate post, and in combination with the rods, L K, and carriage levers, 1 I', J J', substantially as and for the purpose herein specified. 2d, The peculiar arrangement and combination of the latch, E, with arm, F, the rod, G, double crank rod, a H b, and a gate plate, M, the several parts being constructed and arranged as shown, and used in combination with the gate, CA B D, and latch post, P, substantially as and for the purpose herein specified.

specified. 88,198.—COCKLE AND GARLIC SEPARATOR.—J. W. Neal, and A. J. Truxell, Big Lick, Va. Antedated October 9, 1868. We claim the strangement of the cylinders, B B, having perforated metal faces, upon the frame, A, in such a manner that one end of each cylinder is elevated above theorher, so that the grann will pass from the hopper, C, down in between the cylinders, and pass down the inclined plane thus formed, all constructed and used as specified. 83,199.—Hot Air Attachment to Cooking Stoves.—John

50,100.—1101 first first from the first first from the first first first first from the first fi

-MACHINE FOR MOLDING SHEET METAL WINDOW 83,200. AND DOOR CAPS.-Joseph Parkin, and James H. Smith, Cicveland, Ohio. We claim the adjustable auxiliary roller, K, rollers, C C, adjustable stand-rds, B, and guide, I, all combined and arranged to operate in the manner as ind for the purpose set forth.

83.201.—Mode of Binding the Edges of Rein Holders.-

Louis J. Parsons, New Bedford, Mass. I claim the metallic frame, k2, for onneing the edges of "reinholes" in car-riage boots and horse blankets, and securing the flap which covers the front of rein hole in boots, made and applied substantially in the manner shown and described.

83,202.—ADJUSTABLE MUSKETO BAR FRAME.—Louis J. Par-sons, New Bedford, Mass. I claim a metallic musketo bar frame, in combination with springs and screws, as herein set forth and described, for the purpose specified.

83,203.-WHIP SOCKET.-Louis J. Parsons, New Bedford,

Mass. Mass. I claim making whip sockets in longitudinal sections, connected together it the bottom by springs or hinges, and held together at the top by an elastic band, as herein set forth and described.

83,204.—THILL GUARD.—Louis J. Parsons, New Bedford,

Mass. I claim the metallic safety guard, C, for thills of carriages, constructed and operating substautially as and for the purpose setforth and described, and applied in any practical manner.

83,210.—MANUFACTURE OF GLASS WARE.—Daniel C. Ripley,

[NOVEMBER 4, 1868.]

Birmingham, Pa. I claim the construction of a compound mold for making articles of pressed glass ware, substantially as described, in which the pressing fould shall itself be a mold, and shall at the same time be connected by a sprue or prues with another mold, or with other molds, for forming the same or other articles of glass ware.

other articles of glass ware. 83,211 — Toy PISTOL.—Ezra Ripley, Troy, N. Y. I claim the combination of the sriking lever A, beltspring, B, and stud or support, C, for the belt spring and lever. with the stock, D. R, and barrel or projectile holder, F, with or without a sliding follower, G, therein, all con-structed and arranged to operate substantially as and for the purpose herein set forth

set forth. Also, the combination of a trigger catch, H, striking lever, A, belt spring, B, stad, C, stock, DE, and projectile holder, F, with or without a follower therein, all constructed and arranged to operate substantially as herein de-

83,212.—TRAVELING BAG.—William Roemer, Newark, N. J. I claim a frame for traveling bars or valises, being bulged at n and m, to form, in combination with plates, v and w, attached on the under side re-cesses or bearings for staples, A or B, to relieve the lock from strain, as de-scribed, constructed and arranged as herein specified. 83,213.—NUT.—Ben J. D. Sanders, Wellsburg, W. Va. I claim a metallicutfor screw bolts, having a concave or conical depres-sion in the lower face, around the eye, substantially as and for the purpose described.

ston in the owner have not in the second sec

scribed, 24. A metallic nut for screw bolts, having one or more recesses or steps around the eye, with a concavity or depression on its lower face, substan-tially as and for the purpose described. 83,215.—WATER CLOSE'I.—D. Schilling, Brooklyn, N. Y.

S3,215.— WATER CLOSET.—D. Schilling, Brooklyn, N. Y.
Iclaim a water closet, privy, or other seat, when provided with a receptacle or receptacles for a deodorizing or disinfectine agent or agents, in combination with an arrangement of mechanism substantially as herein described, by which such disinfectants can be discharged into the chamber of space about the bowl, etc., or into it, substantially as and for the purpose described.
S3,216.—Swing.—Benj, F. Shaffer (assignor to himself and Wm, K. Young), Dayton, Ohio.
I claim the permanent arms, E E, the pivoted arms, D D, and treadle, F, constructed, arranged, and operating substantially as described and for the purpose specified.
S3,217.—CARRIAGE SPRING.—T. J. Shears, Ypsilanti, Mich.
I claim the combination of the snit #s in the form described, composed of

Constructed and the second of the second of the substantial second of the second second of the second substantially as herein described.
South State Second Seco

S5,218.—WASH BOILER.—Pius L. Shepler and Samuel L. Ir-win, Whitehouse, Obio. We claim the periorated sliding extension tube, E, in combination with the chambers, B, the grated take bottom, J, provided with button, G, and the lugs, H, on the boiler, A, substantially as and for the purposes set forth. Also, the ears, C, in connection with the chambers, B, and the pit bottom of the boiler, A, substantially as described. And the combination of all the above named parts with the faucet, I, when arranged and operating substantially as and for the purposes herein specified.

specified. 83.219.-Tucking Device for Sewing Machines.-R. H.

83,219.— 'TUCKING DEVICE FOR SEWING MACHINES.—K. H. St. John, Bellefontaine, Ohio. I claim, Ist, Thepressure gage plate, C, applied to the free end of a hinged handle, B, substantialiyas and for the purpose described. 2d, The pressure gage plate, C, on the hinged handle, B, in combination with the folding place, D, substantially as described. 3d, The pressure gage, C, on the hinged handle, B, in combination with an adjustable guide, f, and a folding plate, substantially as described. 4th, The vertically adjustable gage plate, C, constructed with an extension guide, c, upon it, in combination with a shoulder, s and extension guide, I, formed on a base plate, A, and a horizontally adjustable slide, D, substan-tially as described.

tially as described. 83,220.—BIRD TRAP.—James S. Stone and Geo. W. Cham-

below of the second sec

83,221.—ORE SEPARATOR AND CONCENTRATOR. — Richard

83,221.—ORE SEPARATOR AND CONCENTRATOR. — Richard Dunn Symons, John Tremelling Harry, and Samuel Stephens, Grass Valley, Cal.
We claim, 1st, In combination with the pan or tub, A, and chamber, H, the yoke, B, provided with stirrers or aguators, D D Di, and annular ring, D2, or their equivalents, substantially as and forthe purpose described.
24. The hollow vertical shaft, F, and erving shaft, F, with a haif round opening, in which the balf round depending spinele, E, of the yoke sets, substantially as a set forth.
34. The pins, L to on the gear 11¹, which operate the bammer, the weighted arm, M, and the hammers, N, the whole constructed and arranged to operate substantially as and for the purpose described.
83,222.—MANUFACTURE OF STRELINGOTS.—Jno. Blake Tarr, Fair Haven, Mass.

Fair Haven, Mass. I claim forming a hollowing ot under pressule, as berein described. 83,223.—CAST-STEEL TIRE.—John Blake Tarr, Fair Haven,

Mass. I claim, ist, The machine for making a compressed steel car wheel tire substantially as described. 2d, As a new and improved article of manufacture, a compressed steel tire for a car wheel, made separate:room, and adapted for being shrunk up-on, the central portion of such wheel, substantially as described. 9904 SERVE EXCEPTION Blake Tarr. Fair Hayen. on, the central portion of such wheel, substantially as described. 83,224.—STEAM ENGINE.—John Blake Tarr, Fair Haven,

83,224.—DTEAM ENGINE.—JOHN DIAKC Tarl, ran Havon, Mass. I claim ist, the mode of working an engine by steam which is reheated at-ter it leaves the bolier, and when cut off from the bolier by theaction of the pump, substantially as described. 24, A pide or pipes leading from the steam bolier to the valve chest of an eight hrough a furnace, and provided with a forcing pump which is oper-ated by said engine, substantially as described. 36, in combination with a steam pipe, C, leading direct from a bolier to an engine, and provided with a cut-off valve, i claim the means for taking steam from said pipe, C, superheating it, and then conducting the super-heated steam to the walve chest of said engine, substantially as described. 33,225.—SCREW BOLT.—Frederick Tudor, Boston, Mass. I claim the within described screw boltas an article of manufacture. 33,226.—WROUGHT IRON COLUMN.— George Walters and Thomas Shaffer, Phonixville, Pa.

83,226.—WROUGHT IRON COLUMN. — George watters and Thomas Shaffer, Phœnixville, Pa.
We claim an improved wrought iron or steel column, of which the shaft is formed by the combination of the ring bands, A, skewback bars, B, and binding bars, C, with each other, said parts being constructed and arranged and joined to the base and capital, substantially as herein shown and de-scribed and for the purpose set forth.
83,227.—HEAD REST.—Malon Warne, Philadelphia, Pa. I claim the combination of a curved rod or bow, B a padded strip, A, se-cured at the ends to the ends of the bow, and a strap secured to the baw, and dapted for attachment to the celling of a car, for the purpose specified.
83,228.—PLICEMAN'S MACE.—Mahlon Warne, Philadelphia Pa.

- - Pa. I claim, 1st, A mace, having a rigid handle or stem of metal, and a hollow head of india rubber, or other elastic material, filled with shot, or its equivalent. 20, The combination of the tubular handle, A, sliding rod, B, its head, D

and enlargement, d. 83.229.— SABOT.—Mahlon Warne, Philadelphia, Pa. I claim, 1st, The T-shaped strip, k, secured at two of its ends to a plate, A, and having in the other end an opening, for the reception of a button on the plate, substantially as and for the purpose described. 2d, A strip, D, of cloth, or equivalent fabric, secured to the plate, A, in the

manner described. 83,230.—WASHING MACHINE.—George R. Weber, Springfield,

11. 11. Iclaim the combination of standard, B, fixed to the side of the tub, Λ lever, C, adjustable rod, D, rgid firgers, E E, used in connection with a common tab, and so arranged that clothes may be elevated and drained by the fastening device, F E. 83,231.—CoNCENTRATOR FOR DRESSING ORES.—Henry Wes-ton and George C, Langtry, Davidon N. rando

rence. Worcester. Mass.	and applied in any practical manner.	ton and George C. Langtry, Davton, Nevada.
I claim, 1st, Card clothing, made or composed of a series of teeth set in	83,205Mode of Fastening Apron Hooks to the Dash-	We claim, 1st, A copper lined table, D, with a longitudinal depression, O.
paper backs, A, in a moistened state, and then dried, substantially as and for	ER FALLS OF CARRIAGES.—Louis J. Parsons. New Bedford, Mass.	and imparting to the said table a rectilinear alternate motion by means of
the purposes set forth.	I claimsecuring hooks or rings to "dasher falls" by metallic clasp, B2, sub-	the crank pin, R , working in the curved slot, J, or their equivalents, substan-
2d, Card clothing, made or composed of a series of teeth set in wet or moistened paper backs, and then the sides of the backs subjected to pressure	stantially in the manner described.	tially as and for the purpose described.
while the drying operation is completed, substantially as and for the purpose		2 d . The manner of suspending the table to the rock shaft, and adjusting shaft, by the hangers, F F, jointed arms, G G, and the beam, I, for operating
set forth.	I claim the point, F, and cutter, F, in combination with standard, C, sub-	the said rock shaft, substantially as described.
3d, Card clothing, made or composed of a series of teeth, C, set in moist-	stantially as set forth.	3d, The shackle rod, M, attached to the arm, L, of the adjusting shaft for
ened or wet paper backs, in the manner above described, whereby the teeth are supported oy elevations or gums, b, substantially as shown in the draw-	89.907 DOLLING HODOR STOR DELETER ALL D	raising and lowering the edge of the table, and the springs, T T. constructed
ings.	83,207.— Rolling Horse Shoe Blanks. — Abram Reese,	and arranged to operate substantially as and for the purposes specified.
-	Pittsburg, Pa.	83,232.—STOVE GRATE.—George D. Woodworth, Chicago
83,180.—HAND SEED DRILL.—Wm. Ledlie and Geo. L. Gray,	I claim, 1st, Dispensing with the collar on the rolls, which, in machines heretofore made, confine the inner edge of the shoe blank, by arranging the	
Jefferson, 111.	prints, 11, one ormore, and collar, b', on a smooth-faced roll, A', and with-	I claim, 1st, The combination of the rotating independent center, E, whether provided with teeth, d, or not, with a grate, A, arranged to operate
We claim, ist, The combination of the oscillating seedhopper, C, having the	out any confining collar, in the manner shown and described.	substantially in the manner herein described.
feed roller, E, therein, with the tube, c. having the funnel, d, attached, and the furrow opener, D, all constructed and arranged substantially as described.	2d, The arrangement of the part collar, d, and prints, e, alternately with	2d, In combination with the rotating center, E, a stirrer or flange, H, to
2d, The V-shaped opening in the hopper, with the slides, f and i, arranged	each other, on the face of the roll, and opposite to the full collar, b, so as to limit the spread of the iron at the heel parts of the blank or bar, and at the	operate substantially as and for the purposes set forth.
to operate substantially as and for the purpose set forth.	same time permit the free spread of the iron over the prints, e, at and near	3d, Constructing the teeth, b, with slots, c, substantially in the manner
83,181.—TURNING LATHE.—Stephen R. Lewis, Rockford, Ill.	the toe parts of the blank or bar, substantially as hereinbefore set forth.	and for the purposes herein specified. 4th. Providing the rim, A, with a wire edge, a, as and for the purposes
l claim the combination and arrangement of the tool rests, F and I, with	83.208.—Machine for Soldering Sheet Metal Boxes.—	shown and described.
the cutting tools secured thereto, with segment wheel, K, and pinion, K',	C. L. Rehn, Philadelphia, Pa.	83,233.—POST AUGER.—Calvin Adams, Pittsburg, Pa.
and racks, Jand L, the whole constructed substantially as described and	I claim the concave disk, F, arranged to revolve above a series of gas	I claim a post auger, with one or more plows, constructed and arranged
operating as and for the purpose set forth.	burners, or equivalent heaters, as and for the purpose herein set forth.	on the arms, and operating substantially as and for the purpose shown and
83,182.—PRINTING CERTAIN TEXTILE FABRICS AND YARNS.	83,209.—MACHINE FOR MAKING METAL BOXES.—C. L. Rehn,	described.
John Lightfoot, Lower House, near Burnley, England.	Philadelphia. Pa.	83,234.—KING BOLT AND WHIFFLETREE PLATE FOR VEHI-
I claim, as novel, the making of blue and green colors from this and the	I claim, 1st, Hunging the machine at a a, so that it may be turned to either	CLESLevi Adams, Amherst, Mass.
previously-described solutions. in such a manner that the indigotine remains	a vertical or horizontal position, for the purpose described.	I claim the two plates, constructed as described, the one, A, provided with
combined or mixed with such a small proportion of tin that none, or nearly	2d, 'I he standard, p, rendered 'adjustable upon the trame of the machine.	the parallel flanges, a a semi-annular groove, b, and opening, c, the other, B, provided with the parallel flanges d a, semi-annular ledge, e. projection, f,
none, is fixed in the fiber by the subseque fit processes, and consequently that there is no tin lake found with the dye stuff, to spoil the purity of the blue	as described, so that its levers, J and K, may be adjusted to suit the size of	tubular pendant, g, and reach extension, h, all arranged and operating as de-
and green.	3d, The lever, K, with its spring, t, and blade, u, when operated by the	scribed for the purpose specified.
1 am aware that carbonate of potash has, most probably, been used to fix	lever, J. as described.	83,235.—DRAG BAR FOR CULTIVATOR.—Clark Alvord, Court-
fast blue and green made with indigo and tin. but 1 am not aware that it has	4th, The bar, 1, secured to the frame of the machine, and rendered adjust-	land, Wis.
been used to fix aluminous and ferruginous mordants at the same time, and I therefore claim the use of carbonate of potash for fixing simultaneously in-	able upon the same, in the manner and for the purpose set forth.	I claim, 1st. The compounddrag bar, as above described and shown.
digotine colors and mordants intended for dyeing.	5th, The adjustable flanged guide blocks, m m, for the purpose specified 6th, The lever, H, when actuated by a spring, k, as described.	2d, The construction of the cultivator tooth, and fastening it to the drag
algorite corors and morande inconsol for djoing.	oun, inclover, in, when accurated by a spring, K, as described.	bar by passing the bolt through the angle, as above described and shown.

3d, The movable clasp, in combination with the drag bar, as above described and shown and forthe purpose above set forth. 83,236.—OUTLINE MAP TO TEACH GEOGRAPHY, ETC.—E. F.

S5,250.—OUTLINE DIAP TO IEACH GEOGRAPHY, ETC.—E.F. Anderson, Mansfeld, Conn. I claim the construction of an outline map, and then a mess of different di-visions or parts thereof, so that the said names may be attached or detached, substantially in the manner as herein set forth. S3,237.—ELEVATOR FOR BUILDINGS.—James S. Baldwin, Noncet N. I.

Newark, N. J. I claim the automatic elevator, constructed and applied as and for the pur loss set forth

83,238.—HARROW.—W. H. Barry, Rabbit River, Mich.

Co, 250. — HARROW — W. H. Daffy, Rabbit River, MICH. I clam, 1st, The combination of the overlapping guard bars, B and E, with with theforward ends of the parts, D and A, substantially as berein shown and described and for the purpose set forth. 2d, The described arrangement of the curved metallic bars, C C, and straight bars, F, with relation to each other, the central part, A, of the bar-row, the wings, D, and guards, B E, as herein described, for the purpose specified.

specified. 83,239.—Apparatus for the Manufacture of Illumi-NATING GAS. -John A. Bassett, Salem, Mass. I claim, 1st, In an apparatus for carbureting air, the disk, C, made of wood, floating up on the surface of the hydrocarbon fluid and partially immersed

Nothing upon the surface of the hydroar bon hydroar partial partials in massive therein. 2d, The disk, C, having radiating channels formed upon the under surface, for the purpose substantially as described. 83,240.—BAG TIE.—J. W. Bates, Glencoe, Minn. I claim the arrangement of the wooden block, A, having the holes, a1 a2, and the slot, a3, terminating in the hole a, 2, with the cord, C, all applied to the bag in the manner herein described and shown. 20, 244. 83.241.-VALVE ARRANGEMENT FOR ORGANS.-Moritz Baum

garten, Jr., New Haven, Con. I claim the valves, P R S, in number corresponding to the number of wind hests, constructed in the manner described and arranged and fixed upon the valve rod, L so as to be operated in their respective chambers, substantially in the manner here in set forth.

83,242. -- RAILWAY SWITCH. - Hiram Beckwith, Grass

Lake, Mich. I claim, in combination with a switch lever, C, the bell crank, G, with the weight, h, and pin, i, a rranged substantially as described, for the purposes set

torth. 83,243.—Machine for Dressing Millstones.—William

Bold, Sheboygan Falls, Wis. I claim the combination of the pick block holder, E, and pick block, D, aving the adjustable pick plates, H, and removable cap, G, with each other nd with the adjustables frame, A B, substantially as described, for the pur-ose specified.

having the adjustable pick plates, H, and removable cap, G, with each other and with the adjustables frame, AB, substantially as described, for the pur-pose specified. 88,244.—BRICK MACHINE.—Geo. C. Bovey, Cincinnati, Ohio. I claim, 1st, The arrangement of the pulverizers, M and M', and screen, N, in combination with the mold wheels, B C, of a brick machine, in the manner and for the purposes described. 24, The arrangement of the fixed cam, I, having wings, 1' I', and flanges, J J', in combination with a series of pluncers, E, having rollers, H, and out-wardly-projecting shafts, h, for the object herein stated. 3d, In combination with the mold wheels, having radial compartments, D, substantially as herein set forth. 82, 945 — Wingert FOP, Venucies, R, J. Bowman, Mang, 82, 945 — Wingert FOP, Venucies, R, J. Bowman, Mang.

-WHEEL FOR VEHICLES. - R. J. Bowman, Mans-83,245

8,243.— WHEEL FOR , Lange and the second state of two parts, constructed and fitted together in the manner substantially as and for the purpose set

and fitted together in the manner substantiaty as and the the parpet forth. 2d, The flat spekes, C, secured to the hollow rim, A, by means of the bent ends, e, angles platest, bolts, dx, and grooved blocks, g, and to the hub ring, by means of the cylindrical keys, i, and chambers, hx, substantially as herein shown and described. 3d, The combination of the rim, A, tire, B, spokes, C, and the hub, com-posed of the ring, D, and box, E, all constructed and arranged substantially as and for the purpose specified. 83,246.— CFAS FIXTURE.—Nathaniel L. Bradley and John A. Evours (assignors to kradley and Hubbard). West Meriden, Conn.

Everts (assignors to Bradley and Hubbard), West Meriden, Conn. We claim, as an article of manufacuure, gas instures, the shell or ornamen-tal part of which is formed of two parts of cast instal, one part being provi ded with a lip or lips, a, to cover the joint and form a rib, substantially a and for the purposes specified.

83,247.—CIGAR MACHINE.—Richard A. Bright, Jr., Provi-

83,247.—CIGAB MACHINE.—RICHAIM R. DIAGH, C., and dence, R. I. dence, R. I. I chimi, Ist, A cigar machine, consisting of the stationary frame, A, carry-ing roliers, B C; of the swinging frame, E, carrying the rollers, F G H; of the header, J, follo wer, L, and cutter, O, all made and operating substantially as and for the purpose herein abown and described. 2d, The slising follower, L. atticed to the end of the spindle, D, and made yielding by means of the spring, t, substantially as described, and operating for the purpose specified. 3d, The header, J, formed on a pin, p, and having the lips, r, as set forth for the purpose specified. 4th, The cutter, O, formed on the swinging weighted lever, N, substantially y asset forth, the same being adjustable on the frame, E, as described for the purpose specified. SS 948 --SHUTTER AND BLIND OPERATOR.—Wm. E. Brooke,

the purpose specified. 88,248.--SHUTTER AND BLIND OPERATOR.-Wm. E. Brooke,

Trenton, N. J. I claim the worm gear, C D, arm, E, slide, F, and slide bar, G, dove tail, b b w their coulvalents, when constructed, arranged, and combined substantial their equivalents as and for the put

or the purposes herein described. -COMPOUND FOR THE CURE OF DROPSY.—C. Brown, 1y as and 83,249.

iy as and for the purposes herein described.
83,243.—COMPOUND FOR THE CURE OF DROPSY.—C. Brown, New Albany, Ind.
I claim a compound, or medicine, composed of the above mentioned ingredients, and uses substantially as and for the purposes herein set forth.
83,250.—CHAIR SEAT.—H. Buchter, Louisville, Ky.
I claim the combination of the bent canes, B, grooved seat, A, and strip, C, a sherein described, for the purpose specified.
83,251.—WASH BOILER.—John H. Burtis, Brooklyn, N. Y.
I claim the removable plates, ef, applied to a wash boiler, substantially as and for the purposes specified.
83,252.—CAR COUPLING.—W. E. Bush, Damascus, Pa.
I claim the springs, d d, with their shoulders, if, and the lip, h, on the draw bead, substantially as and for the purposes herein sidew and described, in combination with a draw head of a car coupling.
82,253.—HAND STAMP.—N. C. Chamberlain, Boston, Mass.
I claim lat, The combination, with a de in a hand stamp, or litree type wheels of equal diameter, each provided with exposed figures or letters upon ther sides, substantially as and for the purpose specified.
2d, Securing the saddle or type wheel holder to the planger, by means of a serew boil, substantially as and for the purpose specified.
3d, Constructing the saddle or type of the rescified with ages, ii, as and for the purpose described.

3d, Constructing the sadale or type notice who have being on the said purpose described. 4th. The type wheel, n, provided with figures upon its side, when the said wheel is constructed and arranged between two wheels of equal diameter, as and for the purpose set forth. 5th, The type wheels, m and n, when the same are constructed and com-binet together, as and for the purpose described. 6th, The arrangement, whereby one detent serves to secure in position two of the type wheels, as specified.

of the type wheels, as specined. 83,254.—WASHING MACHINE.--C. F. Chambers, Hutsonville,

III. I claim, 1st, The peculiar construction of the said board, namely, the in-clined and yielding irame, D, supported in front on springs, E, and at back on or near the tub bottom, and having hinged to its front and upper edge, the series of concave corrugated and yielding fingers, G, whose lower ends are supported on springs, I, in combination with a vibrating ranber. 2a, The yielding and swinging frame, K, having the double rubber, L L', and handle, P, in combination with a yielding concave board, substantially as set forth.

as set forth. 83,255.—GRAIN DRYER.—L. S. Chichester, Brooklyn, N.Y. I claim a grain dryer, formed with air tubes running through the grain pace, and opening at both ends, substantially as specified, whereby a curren t air causes a cu culation of the mass of grain during the drying operation lostantially as set forth. space, and of air cau

83,256.—HEAD BLOCK FOR CARRIAGES.—T. M. Cluxton, Ris-

53,200.— HEAD DHOLD FOR CONSTRUCTION CARTING STATES AND ADDRESS AND ADDRESS

I claim, 1st, The square or angular case, B, folding roof or doors, D, when said case is elevated upon the vertex of the angle of its sides, in the manner as and for the purpose specified. 24, The angular frames, F, when arranged within the case B, so that the vertex of the angles of said frames shall coincide with the vertex of the angles.

83,264.- APPARATUS FOR BOILING EGGS.-Ira Dimock, Flo-

00,004.—APPARATUS FOR BOILING EGGS.—Ira Dimock, Flo-rence, Mass. I clam, 1st, The use, in an apparatus for boiling eggs, of a fluid, surround-ed by a slow heat conducting material or air cavity, substantially as de-scribed, in combination with a bell or other sonorous annunciator, the strik-ing hammer of which is actuated to strike the same, from the expansion of thesaid fluid, all as set forth. 2d, The use of a fluid in a case arranged to act, by expansion, on a piston or diaphragm, which will transmit movement, so as to release a catch and rn g a bell, and substantially as shown and described, and for the purpose set forth.

, An egg-boiling apparatus, when constructed substantially as herein

shown and described, apparatus, which constructs substantially as interim 4th, The combination, in an egg-boiling apparatus, of an egg receptacle, al. of any suitable form, with a case, b, inclosed by another case, c, to retard the penetration of beat to afluid within the inner case, substantially as de-scribed.

83,265. — ICE-CREAM FREEZER. — James Dooling, Boston,

In combination with the tension \mathcal{A} is described. 6th, The guides, Z Z, and the locking bolt, Y, in combination with an ice tank mounted on a carriage, substantially as described. 7th, The central beater wings, h, attached to either side of the beater shatt, and curved partially around said shaft, parallel to its axis, when so constructed and applied that a free passage for the cream is left between its edge and the walls of the cream holder, substantially as described. edge and the walls of the cream holder, substantially as described. 83,266. — SASH FASTENER. — John H. Douglass, Meriden,

Conn. I claim the follower, F, bolt. E, and lever, I, combined with the roller, L, and incline, C, when constructed and a tranged to operate in the manner and for the propose substantially as described. S3,267 - TILLING FORKS FOR LOOMS. William G. Duce, Bal-

S3,267.— L'11.LING FORKS FOR LOOMS.— William G. Duce, Baltic, Conn., and Albert C. Eddy, Providence, R. I. We claim the combination, with the filing fork. having times of india-rubber, or other flexible and elastic material, of the protecting metallic shields, c, substantially as described.
S3,268.—WATER CHARGER FOR PUMPS.—Thomas Dutton, and Thomas Maguire, PortJervis, N. Y. We claim, ist, The arrangement of the channels, b and c, in relation to the body of the charger, as her in recited.
2d, The charger, as, with its channels, b and c, and port or hole, f, all substantially as shown and described.
S3,269.—BUGGY TOP FASTENING.—Daniel S. Early, Hummelstown. Penn.

53,203.— Dotter for an entropy of the second second

1 Claim the jointed bars, and construction of the set of

thereof, in combination with the succyard, J, weight, b, saw moter, h 1 r, and spour, A, all substantially a shown and described, and for the purpose set forth.
2d. The steelyard arm, J, having a rigid connection with the choking plate, W, and leose connection with the sack holder, L L T, or its equivalent all substantially as and for the purposes shown and described.
3d, The sack holder, L L T, or its equivalent, in combination with the steel-yard arm, J, weight, K, and spout, A, for the purpose's of thrusting in a plate. W, to shut off the flow of grain, substantially as shown and described.
3d, The sack holder, L L T, or its equivalent, in combination with the steel-yard arm, J, weight, K, and spout, A, for the purpose's of thrusting in a plate. W, to shut off the flow of grain, substantially as shown and described and for the parose set forth.
4th, Theband, Q, and clips, f r, substantially as shown and described, in combination with the plates, L, all as and for the purpose set forth.
5th, The catch lever, n, and spur wheel, d, constructed and operating as shown and described, in combination with the cboking plate, W, and any tallying mechanism, all as and for the purpose set forth.
5db, The arrangement of the tallying mechanism, consisting of the shaft, the arrangement of the platen are, and pointer, a, on shaft, m, all combine to operate as set forth, in connection with the weighing mechanism.
S3,292, —PROCESS OF PRESERVING POTATOES, -Josiah Mumford, Clarksburg, Ohio.
I claim the above described process of preserving potatoes, viz., by dusting or spinkilling them with lime, and then packing them awari in a composition of lime and loam or sand, as herein described and represented.
S3,300, —CONSTRUCTION OF METALLIC SPONS. —Frederick G Neerringhaus, St. Louis, Mo.

Lotain, Jat. Coordinated of two beaks or hooks, b b', upon a single draw head, in the position relatively with each other, substantially as shown and described, and for the purpose specified. 2d, The combination of a link, D, having the toe. n, and operating as de-scribed, with a rock shait, E, supported by the end of the car above the draw head, and having attached to it a curved serrated arm, I, and a rope or crank for moving it, the whole operating together in the manner substanti-ally as described, and for the purpose set forth, 83,273.—TONIC BITTERS.—Frank Fullerton, Williamsport, Pa

Pa. I claim the within-described compound for tonic bitters, made of the in

gredients and in the proportions as above set forth. 83,274.—CONSTRUCTION OF PICK AXES.—Morgan Gale, San

33,274.—CONSTRUCTION C. Antonio, Mexico, Mexico, Mexico, Mexico, I claim the estachable socket, C, constructed with a base, c1, with or with-nut the side of brace flanges, c2, in combination with the pick bead, B, sub-stantially as herein shown and described, and for the purpose set forth. 83,275.—LUBRICATOR FOR STEAM ENGINES.—George Girty, 83.275

the purposes set forth. \$3,276.—BINDING MERCANTILE BOOKS.—John H. Gleim, St.

Louis, Mo. I claim the combination of a journal or entry book, B, with the press copy-ing book, A, into one volume, substantially as berein shown and described and for the purposes set forth. 83,277.—WASH BOILER.—S. A. Goodwin, Buffalo, N. Y. I claim, 1st. Ina wash boiler, the separation and collection from the wash-ing solution of the dird discharged from the articles washed, automatically, by subsidence or deposition, by means of an elevated pan or pans, E, or their equivalents, placed at some point or points on the line of circulation, as set forth

83.277.

forth. $S_{d,1}$ the plate, B, with its two rims and the settling pan, E, combined, sub-stantially us and for the purposes described. $S_{d,2}$ by $S_{d,2}$ by $S_{d,2}$

stantially as and for the purposes described. 83,278.— WAST BOILER.—S. A. GOOdwin, Buffalo, N. Y. I claim, lat, in connection with wash bollers of the class above mentioned, the filtration of the washing water automatically, as herein set forth. 2d, The inclined imperiorated plates, D, bars, b', plates, B, and rim, g, combined together and arranged with the boller, A, and pipe or pipes, C, substantially as and for the purpose described. 83,279.— METHOD OF DESTROYING INSECTS IN TREES AND PLANTS.—H.A. Graef, Brooklyn, N.Y. I claim the described process of exterminating caterpillars, and measure worms, consisting in forcing a stream of water containing chloride of lime against the tree in which the insects are found, as herein shown and de-scribed.

scribed. 83,280.--Compound for Destroying Insects. - Martin

Haas, New York city. I claim the compound admixture in the proportions specified and for the purpose set forth. 83,281.—EGG HOLDER.—F. R. Harbaugh, Philadelphia, Pa.

I claim the the within described egg holder, composed of a base. A two elastic arms, B and B, and two sections, D, of a cup, or the equivalent to the same, the whole being constructed and arranged substantially as and for the purpose herein set forth. 83,282.—CHIMNEY.—Samuel Hoke, Mount Pleasant, Md.

85,282.—OHIMNEY.—Samuel noke, Mount reason, which the I claim, lst, The combination of the self-acting chambers, M, with the guides, K, when constructed with and operated by means of the vane, N, as herein described and for the purposes of forth. 2d, Also, an iron tuoular colimney in sections, with a fire place, A, radiator, B, reel, P, cleaners, M, and vane, N, when constructed, combined, and oper-ated as herein described and for the purposes set forth. 83,283.—GANG PLOW.—H. R. Huie, Hayward's, Cal.

83,283.—GANG FLOW.—H. K. Hule, Haywara's, Cal. I claim,1st, Securing the arm, e, of the axle, f, to the axletree, a' bymeans of the eye bolt, i, as shown and described.
24, The crank bolt, q, in combination with the eye bolt, r, for adjusting the tongue, as here in set forth.
3d, The arrangement and construction of the plate,], ears, m, and boxes, n, which allows of their being cast as one piece, as here in bed.
83,284.—ENVELOPE FOR NEEDLES.—Arthur James, Red-

83,309.—CONDENSER.—William Phelan, Peoria, Ill.
Iclaim, ist. A central crowning cone, C, applied within the cones, JF, so as to form a condensing chamber, B, surrounded by a coolwater chamber, F' substantially as described.
2d, Conecs, CF, connected by a concavo-conved bottom, E, when these cones are arranged substantially as described.
3d, The jacket, J, and its concavo-convex bottom, G, with the cones, C F constructed ant arranged substantially as described.
4th, The valve T, arranged with relation to the internal extension of feed pipe, D, substantially as described.
5th, The afencemp pipe, U, applied over the condenser, in combination with outlets, a, through the feed pipe, D, substantially as described.
6th, The a frangement of outlet pipes, O, with relation to chamber, F', and the outer lacket, J G, substantially as described.
7th, The arrangement of valve R, with relation to chamber, B1, and passage, S, substantially as described.

form or construction, interposed between the carbureting vessel," A B, and the burners of the same, to screen the heat from the lower part of the said vessel, and deflect its do as to act on or near the surface of the contained oil or carbureting fluid, all substantially as shown and described, and for the purpose set forth, 24, The reflecting lip, d, substantially as described, in combination with the ΔB and interceptor H L all as set forth.

301

24. The reflecting lip, d, substantially as described, in combination with the carbureting vessel, A B, and interceptor, H, all as set forth.
83,290.--WEEDING HOE.--Lewis King, Oriskany Falls, N. Y. I claim the weeding hoe substantially as herein shown and described. as a new article of manufacture.
83,291.-STEP LADDER.-M. C. Longacre, Cleveland, Ohio. I claim the slotted metailic plate, b c, in combination with the hinged brace, D, and buttous, d e, when used in connection with astep ladder, substantially as and for the purpose described.
83,292.-SASH HOLDER.-Samuel L. Loomis (assignor to himself and Charles E. Walter), Byrop. N. Y.

55,252.—DASH HOLDER.—Dannutler, Promission of the set o

Obio. Iclaim the slotted plate, E, in combination with the slotted jaw, B, of a button hole cutter. as hereing described, for the purposespecified. 83,294.—HOLD BACK FOR CARRIAGES.—John A. McKinnon,

55,294.—HOLD BACK FOR CARTIACES.—John A. MCKIMIOH, Cleveland, Olio. I claim, I, The loop, F, and yoke, D, arranged at right angles to each other, or nearly so, the latter passing around book, B, and provided with the bar, having arms, E, substantially as and for the purposes set forth. 2d, The continuous band, I, attached to the hook, in combination with the key, J, and shard, B, yubstantially as and for the purposes set forth. 3d, The loop, F, and yoke, D, provided with the cross bar and arms, E, in combination with the hook, B, and tongue, C, substantially as and for the purpose set forth. 82 205 SARETY VALUE — William B. Molong Mason City

83,295.—SAFETY VALVE.—William R. Malone, Mason City,

S5,295.—SAFETY VALVE.— William R. Malone, Mason City, West Virginia. I claim the arrangement of the safety valve, B, exhaust pipe, D, provided with pipe connections, communicating with the furnace, the extension tube, C, and boiler, A, substantially as cescribed. 83,296.—DITCHING MACHINE.—John Marsh, Seneca, Ill. An-

Son John Marsh, Schenker J. Schenker, John Marsh, Seneca, Ill. Antedated September 28, 1868.
I caim, ist, The combination of the lever, G, shaft, F, roller, H, and apron, I, with the lever, L, plow, K, apron frame, J, and shoe, M, Substantially as and for the purpose described.
2d, The combination of the wheels, C C', frame, A, beam, K, double brace, N, guide, O, and brace, P, substantially as and for the purpose described.
S.3,297. — BHICK MACHINE. — Henry Martin, Keyport, N. J., assignor to James H. Kenick, New York city.
I claim, ist, The plunger, I, constructed in sections, essentially as described by combining with the mainplateor body of the plunger, loose end bars, r, r, and a front plate or bar, u. adjustable, relatively to the main body, substantially as and for the purposes of purposes herein set iorth.
2d, The application to the roo, G, to which the spring hook is attached, of the turn buckle, U, in the manner and for the purposes set forth.
S.28, 29.6. — GRAIN WEIGHING AND TALLYING MACHINE. — F. S. McWhorter, St. George's, Delaware.
I claim, 1st, the sleeve, V, and choking plate, W, or the equivalent thereof, in combination with the steeyard, J, weight, K, sack holder, L L T, and spout, A, all substantially as solw n and described, and for the puppes set forth.

83,300.--CONSTRUCTION OF METALLIC SPOONS.-Frederick G Nienringhaus, St. Louis, Mo.
I caum a metahlespoon, fork, or similar utensil, provided with a handle, concaved or dished longitudinally on the upper side thereof, being curved from edge to edge, substantially as set forth.
Also, folding over and bending outwardly the edges of a fork, spoon, or similar utensil, at the juncture of the handle with the head or bowl intereof, substantially as herein set forth.
83,301.--COAL HOD.-Frederick G. Nedringhaus and Wil-liam F. Niedringhaus, 8t, Louis, Mo.
We claim, 1st, A coalhod bottom, stamped up out of an unbroken piece of sheet metal, when provided with an upwardly-projecting flange, formed to receive, enclorele, and membrace the lower edge of the body of the hod, sub-stantially in the manner and for the purpose herein set forth.
83,302.-VALVE FOR PUMP.-John A. Nichols, Paterson, N.J.
I claim the valve case, A A; in combination with the valve, 8, constructed

and arranged to operate as described. 83,303.—RAILWAY RAIL JOINT.—Geo. Palmer, Littlestown, Pa. I claim, 1st, The fish piece, C, lapping the rail joint. B, its upper surface as igh as the level of the too of the rail, in length sufficient to rest upon two or more ties, and secured to said ties, independent of the fastenings of the out

or more tites, and accure to that it is in the metallic plate on its upper surface, rail. 24, A wooden is h piece, provided with a metallic plate on its upper surface, lapping the rail joint, B, substantially as and for the purpose set forth. 3d, A fish Diece, lapping the rail joint, B, and constructed with the grooved ends as shown and exercised, for the purpose of enabling the Cars to regain the track, after having been thrown therefrom, as set forth.

the track, after having been thrown therefrom, as set forth. 83,304.—HARVESTER.—Isaac H. Palmer, Lodi, Wis. I claim the combination of a reel, having the cross bar, N, as described, with the tilting platform, operated by the cross bar at every revolution of the reel, substantially in the manner described and shown. 83,305.—CARRIAGE STEP.—Geo. Panchot, Hastings, Minn.

83,306.—Mortising Machine.—Francis Parker (assignor to

himself and C. W. Ormsby), Petaluma, Cal. I claim the gage rod, B. with the slides, $D \to F G$, ortheir equivalents, to-gether with the stops, R S T U V W, when constructed substantially in the manner and used for the purpose above described. manner and used for the purpose above described. 83,307.—WASH BOILER.—W. N. Peirce, West Boylston,

Mass. I claim the combination with the boiler, of the inclined and perforated base, F, and its central tube, supported upon legs or standards above the bottom of the boiler, in the manner described, so that a continuous pace, c, shall intervene between the periphery of the base and the sidesof the boiler, as and for the purposes set forth. 83,308.—MEAT CUTTER.--John G. Perry, Kingston, R. I. I claim the curved or hollow plate, D, with openings, made substantially as described, for the purpose of holding the knives of a meat cutter. 83,309.—Converser — William Phelan Peoria III

83.309.—Condenser.—William Phelan, Peoria, Ill.

and removable carriage step, constructed

with th

, A A', in combinat

f claim the valve cas

tially as above described

said case is elevated upon the vertex of the angle of its sides, in the manner	the tongue, as herein set forth.	passage, S, substantially as described.
as and for the purpose specified.	3d, The arrangement and construction of the plate, 1, ears, m, and boxes,	8th, The valve, T, arranged with relation to the internal extension of feed
2d, The angular frames, F, when arranged within the case; B, so that the	n, which allows of their being cast as one piece, as herein described.	pipe, D , substantially as and for the purposes described.
vertex of the angles of said rames shall coincide with the vertex of the an- gles of the case, in the manner and for the purpose set forth.	83,284.—Envelope for Needles.—Arthur James, Red-	9th, The deflecting plate, U, applied over the condenser, in combination
3d, The honey boxes, G G', frames, F, doors, D, and case, B, combined and	ditch, England.	with the outlets, d. through the feed pipe, D, substantially as and for the
arranged, in relation to each other, in the manner and for the purpose sub-	I claim a needle case or wrapper madefrom a blank, formed and folded as	purposes described.
stantially as described.	herein described, and illustrated in the accompanying drawings.	83,310.—IRONING TABLE.—James T. Piercy, Martinsburg,
•	83,285.—TRUNK HANDLE.—G. B. Jenkinson, Newark, N. J.	Ohio.
83,258.—SEAT LOCK FOR CARRIAGES.—Wm. Conway, Rush-	I claim, 1st, The sockets or plates, C C, constructed with the hollow shoul-	I claim the supporting frame, F, bar or support, e, standards, A A, and
ville, N. Y.	ders or elevations, a a, with an aperture or opening between them, arranged	ironing board, d, all constructed and arranged substantially as set forth.
I claim the bolt, b', provided with the tongue, b", in combination with the	and operated substantially as and for the purpose set forth.	
sliding key, c, and the socket, a, as and for the purpose set forth.	2d, The clasps or plates, D D, provided with projections, d d, working in	83,311. — PULVERIZING LAND ROLLER. — Frederick Post,
83,259.—CULTIVATOR.—Wm. Custer, Shannondale, Ind.	the sockets or plates, C C, as and for the purpose set forth.	Plano, Ill.
I claim a shield or fender attachment to a plow, constructed and operating	83,286.—WINDOW BLIND.—Wm. Johnston, Cincinnati, Ohio.	I claim the roller, A, in combination with the scraper, B, markers, C, sills,
substantially as herein specified, and for the purposes mentioned.	I claim, 1st, The through cylindrical rod, B, fixed rigidly in the stiles, as an	K K, cross bars, L L, bearings, G, and tong ue, E, all constructed and operat-
	axle tor a slat in wineow blinds, shutters, doors, and lower windows or	ing substantially as described.
83,260.—WASHING MACHINE.—G. A. Dabney, San Jose, Cal.	openings to turn upon, substantially as herein described.	83,312FANNING MILLJames P. Preston, Monroe, Wis.
I claim the reversible rubber, G, constructed as described, in comb ination	2d. The metallicslat, when formed with a tubular or hollow spine, running	l claim, 1st, The frame, M, bung to the faces, A A, by the metallic strips, as
with the side bars, F, swing bars, D, and removable rubbing platform, K L,	longitudinally through the same, and made to turn on the said cylindrical	described, in combination with the spiral springs, substantially as described.
substantially as herein shown and described, and for the purpose set forth.	rods.	2d, The combination of the spout, z, and screens, K and L, the latter being
83,261.—BIT STOCK.—Ben j. Darling, Bridgewater, Mass.	3d. The bushings, D; when provided with the annular flange, d, adapted to form a washer at the end of the slat, for the purpose specified.	provided with the door, a, and button, a', as and for the purposes set forth.
I claim, in combination with a bit stock, the sliding jaws, B B, whereby a	form a washer at the end of the slat, for the purpose specified.	09.919 EDUED DEVED I Welton Pune Deputile III
bit or auger is fastened to the stock, substantially in the manner herein shown	83,287WHIP SOCKETJohn Julien, Christiansburg, as-	83,313.—FRUIT DRYER.—J. Walter Pyne, Danville, Ill.
and described.	signor to himself and John F. Horr. Springfield. Ohio.	I claim the combination of the perforated drawers, with the surrounding
	I claim a whip socket constructed with a lock, D, having a spring bolt, D',	steam spaces, each one of which spaces is provided with an induction pipe,
83,262.—SAWING MACHINE.—R. B. De Bare, Philadelphia, Pa.	and flexible chain, C, notched curved piece, C1, and spring, C2, arranged to	substantially as shown and described.
I claim the arrangement of the half pinion, U, with its reciprocating double	operate in combination. substantially as set forth.	83,314.—CORN SHELLING MACHINE.—Joshua S. Rackham,
rack, V, guide, Y, with its adjustablelever, G, grooved trame, C, guide plates,		Waterport. N. Y.
D D, and wood racks. K K, with their curved rack lever, L, when combined		I claim, 1st, A hollow toothed corn shelling cylinder, composed of yielding
and operating with the adjustable cross cut saws, B B, as herein described	I claim the arrangement and construction of the floor, B, dumping plat-	segmental sections, substantially as and for the parnose described.
and for the purposes set forth.	form. C, rods, X, and hub rings, y', lever, K, shaft, S, hasp, p', dogs, M, lever	2d, The combination, with the same, of the cylinder, H. substantially as
83,263.—BEE House.—Chas. Decker, New Michigan, Ill.	O, and irap door, Q, in combination with posts, A G and i, axle, D, caps, F.	and for the purpose described.
i claim the bee house, constructed as described, and dividea into compart-	friction roller, S, fulcrum, L, rest, N, spout, T, and bin, t', substantially in	3d, The combination, with the cylinder, H, and shell, B, of the screen and
ments, a b, by the central partition, c, each compartment adapted to receive	the manner and for the purposes herein shown and described.	fan blower, substantially as and for the purpose described.
t_{\pm} lower part the snspended comb frames, B E, above which the ordinary	83,289.—Apparatus for Carbureting Gas.—Joshua Kidd,	83,315.—STRAW CUTTER.—Ellery P. Ralph, and James Han-
hive, D, is placed, supported on slats, h, and communicating with the en-	New York city.	nap. Gallipolis. Obio.
trance, g, by means of the board, h', as herein shown and described.	I claim, 1st, The combination of intercepters, asH I, or anyother suitable	We claim, 1st, The eccentric cam wheel, E, collar and lever, c and d, and
·	,,,	the country and coccavite come where jujeonal where the is and up and

guide, b, to which the knife, F, is attached, in combination with the frame, D, constructed substantially as described, and operating as and for the purbut to the standard 2d

302

83,316, -RFF IGEBATING HOUSE.-Thos. L. Rankin, New

83,316. -KFF-1GERATING HOUSE.—IhOS. L. KARKIN, NeW Rechmond, Oh o
10tsim, lst. Ice follower, h, constructed and operating substantially as and for the purposes described.
24. The combination of ice floor, c, and pans, c, c', operating together for the purposes explained.
13. So, The combination of vice floor, c, and follower, h, operating together substantially as and or the purposes explained.
25. The combination of vice floor, c, and follower, h, operating together substantially as and or the purposes explained.
26. The variable compounded substantially as above, described.
24. The variable compounded substantially as above described.
25. FFATENEER FOR COLLARS AND NECKTIES.—Etmanuel Rau, New York City.

Bau, New York city. I claim the stud, A, naving an inclined side slot, g, as described, in combi-nation with the pointed arm, d, e, doubled or joint d at f, and having both a to ward and lateral pring, when the parts are constructed to cherate sub-

ntiaily as described. 319.—ELISVATOR.—John Jay Rea, Cadiz, Ohio.

83,319.—ELISVA'OR.—John Jay Rea, Cadiz, Ohio. I claim the basm, A, books, B B, torken track, C, provi ed with wheels, D and E, triger, L, pulley, E, cores, G K I, and weight, H, all combined and operating suostantially as herein set forth. 83,320 — STEAM SAF#ATY VaLVE.—Geo. W. Richardson, Troy, and Henry Wat rman. Hudson, N. Y. We claim. Ist, The lock-up bar or arch, J J, constructed substantially as sbown and escribed lock-up bar or arch, J J, constructed substantially as sbown and escribed lock-up bar or arch, J J, constructed substantially as sbown and escribed lock-up bar or arch, J J, constructed substantially in the maper shown and d-scribed, it leding so arranked as to prevent tamper-ing with the valve or its adjustments. 31. The combination of the valve, A, spring.', spider, D D, cap, H, and lock-up bar. J , subs an 'aily as shown and described. 34. The arrang ment of use branch accupe passage, N, with reference to the valve, A, and spring, C. Sto, The arrang ment of the lock up bar, J J, with reference to boits, I I, subtantially as shown and described. D, with reference to the spring, C, substantially as shown and described. J, with aranglement of the overhanging valve, A, spring, C, spinder, E, j

substantially as thown. 7th. The combination of the overhanging valve, A, spring, C, spindle, E, and solder, D D, or is equivalent, substantially as shown and described. 83,321.—RAILWAY CAR BRAKE. Martin H. Rumpf, Paris, France. Patented in France OC. 17, 1867. I claim the combination with a brake uspended as described, of a sliding or rotatle g haft, or a chain for aising and lowering the brake, either it e staft or chain being operated by any suitable mechanism, substantially as hereinset forth and shown. 82, 222 M a curve new Synaphysic guard Curgments on Mow

83,322.--MACHINE FOR SHARPENING THE CUTTERS OF MOW

ING MACHINES. —Gelsion Sanf.rd, Bergen Point, N. J. 1 claim, ist, The combination, with the holding bed, I, of a reciprocating rinder, arranged for adjustment relative to one another, substantially as a for the purpose set faits. 2d, The combination, with the holding bed, I, of the adjustable arms, L, betarbuchuses d or the purpose described.

2d, the combination, with the holding bed, 1, of the adjustable arms, L, substantially as a d of the purpose described. Si, the combination, with the bed, A, of the holding bed, 1, and reciproca-ting stone, D, su stantially as a d for the purpose set forth. 4th, The bed, B provided with the ways, c), trough, B, and sponges, Q, sub-stantially as and for the purpose set forth. 5th, The arrangement of the shoing stone, D, connecting rod, G, crank shaft, H, and stone, P, substantially as and for the purpose set forth. 6th, The combination, with the rays, connecting rod, G, crank shaft, H, and stone, P, substantially as and for the purpose set forth. 8th, The combination, with the receipt cating some, D, other presser wheel, O, sub-tanually as the tor the purpose set forth. 8th 323.--DINNER PAIL.-Moritz Saulson, Troy, N. Y. I claim the combination of the pail, A, inner vessel, B, arranged in the up-per part of the pail, pan, C, in the upper part of the inder vessel, and fover, D, extended cown outside of the pain, inner vessel, B of the ITMOVA

scribed Also, the combination, with the pail, A. and inner vessel, B. of the remova-ble wire sping, K. and groove or grooves, L. formed and arranged substan-tailv as and for the put goes herein set forth. Also, the combination, with the pail, A. and outside surrounding cover, D. of the roter, s. r., and wire-like spring bail, N. u. formed and arranged sub-stan-ally as and for the put put bails of an exercised. 83,324 — SAWING MACHINE - F. M. Schaeffer, Blooming drout Kanasi

83,324 — SAWING MACHINE — F'. M. Schaeffer, Blooming Grove, Kansas. I claim. 1st, The arrangement of the guides, M M, and springer, m m, with relation to the guides, G, and the saw, whereby said guides, M. move under p note its of each other, to ores upon the log bear sawed, as berein de-scribed, f r m Purp Se pecified. 2d, The guides of a reciprocating saw, sur ported on an adjustable oscilla-ting plate or support, K, suns antially as and for the purpose described. 3e, The cumulation, with the plate, K, and the saw guides, of the lazy tongs, I, for the purpose of connecting the guides to the oscillatic g plate, a damitting of the resing and failing mono - required by the saw lu its passage through the log, sub-tantially as and for the purpose described. 4th, Theswingli's block support, Q, arranged as described, in combination with the log boat, sub tantially as and for the purpose described. 83,325 — (A SHING MACHINE. — Jerome Scott. Unarleston. Pa. I claim the swinging Ducket, D, as arranged and connected, by means of the arms K, with the press board, H, and op rated by the levers, F, and handle, F, substarially in the manera...of or the purpose bere in shown and 83,323 — HORSE BAKE — Nicholas Selby. Flora, 11]

83,323 — HORSE RAKE.—Nicholas Selby, Flora. Ill.

1 claim, ist, The arrangement of the hinged ira, e. c. carrying the revolv ing rake within the rectangular balanced frame, as a s, all constructed and combined to operate substantially as and for the purposes herein shown and

described of prince backbard of a bar for the purpose of the front cross bar of the 2.1, The notched trip stick, ur, when hinged to the front cross bar of the frame, a, and combined with a spring, w, whereby said stick, s, is actuated downward, and held in contact with the rake head, as herein shown and described fran

bed. The described arrangement of the pivoted lever, K, MnK, I, and stirrup. n, with relation to the rectangular balanced irame, a, and hinged rake link.

lick, n, with relation to the rectangular balanced induce, a, and hinged rake trame, c, as herein shownfor the pupples set forth. 83 527.—Pip: T. B.C.— Nancy M. Sheldon, Chatham, Conn. 1 claim, a, an article of manufacture.the cone-shaped tube. A, provided near its lo er edge with a series of holes, a a, substantially as and for the purposes berein set forth.

its lo er edge with a series of holes, a a, substantially as and for the purposes berein ser forth. 83.328.—INKSTAND.—Wm. G Shattuck, Boston, Mass. I claim the combination, with the ink well and its metallic case and cover, applied to a desk or like at it lei, in the manuer desormed, of a nut, E. arranged to hold skid ink well and case in place, substantial lyas herein set forth. 83,329.—WasH Edolf, S. Allen Sherwood, Auburn, N. Y. I claim, in a clothes washer, the wooden perforated float, B. provided with a metal diarge. C, butes, IL and, at the center, with a circular hole, covered covered with wire gauge, over which hole i placed a tapering cylinder, D, provided a its upper end its a circular perforated box, E, all constructed and operating substantially as and for the purposes herein set forth. 83,330. STOP NOTION FOR WARPING MACHINE.—J. Slegrist, Nw Y ers evy. I claim, in combination with the weights, G, suspended on or from the yarms, the balanced frame, H J and E, arranged for operation by said weights, revolving shat or drum, L, provided with a lifter, f, and belt shifter for throwing the yarn beam out of gear, all for action together, substantially as specified.

as specified. 83,331.—SPINDLE FOR SHUTTLES.—C. E. Smith (assignor to

bimse if, J. S. Jaques, and F. T. Jaques), Lowell, Mass. I caim a split shucle spindle, rotched or ser ated on both sides, or on its entire circumference, substantially as and for the purposes set forth.

entire circumference, substantially as and for the purposes set torth. 83,532. D*VICE FOR FASTENING SHIRT COLLARS.—P. W. Smith, Chicope Falls, Mas. I claim the combination of the plate. A, necks, a and b, with oblong and circular flanges. B and C, and pin, D, the parts bein constructed and ar-range d substantially in the manner and for the purposes set forth. 83,533. SOFA B-DETEAD —B. L. SOUTHACK, New York city, I chaim the seat, D, siding in groove, a, of the arm rests, B, and hinged at its rear edge to the back. E. which back is held up to the arm rests, B, and the back is turned down the seat D, buttl a position and then drawn forward into the the groove, a, with thesear, D, until arrest d by the projection f, whereby a continuous bed bottom is form. c. as herein shown and described. 83,334.—(MBINED EERDER AND CULTIVATOR.—Lucus Stad-ler. Bowen, 11.

3d, The cam, D, levers, I H, and spring, K. all operating as set forth, so as to move the see a slide, F, back and forth, the cam being connected with a re-volving ratchetwheel, a, by means of a pawl, b, so that it will be out of gear when the machine moves backward, as sp. cited. 4th, the wedler, L, connected with a crank or disk on the rock shatt, J, sab-stantially as next red, and operating so as to thre with the ever, I, off the ear D, when the machine is to cease dropping seed, as set forth. 83,339 — ATTACHMENT FOR SKATES.—F. T. Thurston, Provi-dence, R.

dence, R. I. Iclaim the shoe, A or B, with the protecting strip, a, constructed substan-itally in the manner described for the purpose specified, irrespective of the method er ployed to secure its attachment to the skate. 83,340 Shiff, LD FOR CORN PLANTER.—R. T. Taylor, Ever-

(35,340 SIII), DFOR CORN FLANTER. -- M. I. TAYIOI, EVENTION, Ind.
I claim, Isr. The adjustable shield, B, constructed and attached to the plow in the manner described, and o'-era ad by means of the slotted arms on the stay, c, and the lever, D, substantially as and for the purposes herein set forthat the lever, D, at any point descript, the shield, B, substantially as and ior the purpose adjusting the shield, B, substantially as and ior the purpose adjusting the shield, B, substantially as and ior the purposes herein set forthat.

Startially as and for the purposes hereit set forth.
Startially as and for the purposes hereit set forth.
S3,341 — POCKET DRINKING CUP.—J. S. Towndrow, Moline, Ill., assignor to W. P. Humphrey, Davenport, Iowa.
Iclaim a preskt go let, consisting of the cup, A, and stand, B, constructed so that they may be detached, and the cup connected to the stand in a reversed position, substantially as herein desribed.
S3,342.—HORSESHOF MACHINE Except D.

so that they may be detained, and the tab tab ball. versed position, substantially as herein described. 83,342.—HORSESHOE MACHINE.—Enoch B. Turner, Provi-denes, R. I. I Cultur, 1st, The arrangement and combination of the adjustable gage, I, knife noiser, M, adjustable knives, T and S, adjustable butting gage, N, spring, t, and slotted bar, K, as herein set forth and for the purposes de control

spring, t, and stotted bat, a, as we trive so that it is a solution of the anvil, F, mandrels, I I, pads, J J, squeezing cam 2d, he combination of the anvil, F, mandrels, I I, pads, J J, squeezing cam levers, E E, forks, k, and springs, j, all arranged as herein set forth and for the ourposes described.

the ourposes discribed. Solve devices with the cranks, b b, adjustable 3d, he comultation of the above devices with the cranks, b b, adjustable shafts. B B, satoles AA, saddle bars, $3^{+}A^{+}$, spurs, m m m, axie g g, ad-justable connecting r.ds, P P, rollers, D D, slotted cam formers, G G. former rollers, H H, and adjustable rollers, it, as herein st forth, all arranged and combined so as to form a complete machine for making borseshoes, as de-scribed. -SPRING ADJUSTER.-J. D Van Hoevenbergh, Kings-

55,545.—SPRING ADJUSTER.—J. D Van HOEVEnbergh, Kingston, N.Y. I claim the improved spring acjuster above described, its several narts being arranged and operating together, substantially as herein specified. 83,344.—GAS MACHINE.— Hugh Wain, Havenna, Ohio. I claim the arrangement of the cylinder, A, tank, C, privid-d with induc-tion and exhaust pipes, and having the space. H, filled with a poor conduct as and for the purpose substantially as described 83,345.—BINDING MATHEMATICAL BOOKS.—F. B. Wells, Fish-krill untue the Burdson N.Y.

with an the Hudson, N.Y. I claim the insertion of these silicated leaves in the aforementioned works n which they may be use, said leaves to be bound in the book firmly, insert-ng any numb r desired, according to the nature and the size of the volume, or they may be simply f stened in any way, that they may be removed, hanged, or replaced, or new ones inserted, at pleasure, if so thought to be more practicate. change

more practicade. 83,346. - JET ATTACHMENT FOR SODA FOUNTAINS.—J. C. Whatton, Nashville, Tenn. 1 cl.im an attachment for soda-waterfountains, when constructed of a plane surface. A, having a border pipe, B, previded with jet tubes, as a s, etc., irain pipe, b, and supply pipe, d, all substantially as and for the purpose set for h.

83,347.-MACHINE FOR BENDING SHEET METAL.-A. W

83.347.—MACHINE FOR BENDING SHEET METAL.—A. W. Whitney and P. A. Woitley, woodstock, Vt I claim, ist, The folding bar, H. in communation with the bars, J J, arms, P. P, and connecting rods, Q, all arranged to operate in the manner substantially a and for the purpose set form. 3d, The straps, M, in combination with the folding bar, H, adjustable bearings, I, and screws, O, all arranged to operate in the manner substantially as Bown and erscribed. Black, C, upon the wirk or bed piece, B, through the india of the Cums, I, frict n ::Diers, L, and bars, D e, all arranged to oper the substantially as set form. 4th, The gage, E, Earranged and splited in connection with the screw, F, substantially in the manner as and for the purpose set fortb. 83,348. -COUNTER SINK.—P. A. Whitney, Woodstock, Vt. Antedated Oct. 16 1868.

Ant-dated Oct. 16 1868. I claim the h rein-described improved counter sink, when constructed sub-tan-ially as and not here pu pose described. LATHE CHUCK.-D. E. Whiton, West Stafford, Conn. 83 349.

I claim the construction and arrangement of the back plate, P, with open-ings, b b, and pr jection, E, with sockets, a aa, when connected with the rack, B, of a geared chuck, substantial, y as and for the purpose Lerem shown.

shown. 83,350.—Extension Table.- F. R. Wolfinger and Joseph

Barrett, Chicago, II. We claim an ext-nsion table consisting of a central frame, A, having the sideralis cut away to form recesses. F, to receive the attach ble top boards G, an. having the extension frames connected thereto by the hinged bars, H, all constructed and arranged to operate as set forth. 83 351. – STEAM HEATING. — George M. Woodward, New

York city. I claim the cap, C, secured upon the p pc, B and provided with a perforated inphragm, b, from which the tube, D, is suspeaded, substantially as herein hown and described.

83.352. - HYDROCARBON BURNER.-H. W. Yerington, Jersey

83.352. - HYDROCARBON BURNER. - H. W. Yerington, Jersey Cuy, N.J Licham, and Comparison of the set of the s

33. - ATTACHMENT TO SPOOLS FOR CUTTING THREAD.-W. Murrell, Seaford, Del., assignor to himself, Samuel Perry, and E. R. (2008. 83.353 J. Ja

Jacobs. 1 clam. as an article of ma'ufacture, the within described thread breaker, formed from sheet meral, its retaining parts, a a being cut from its center, and bent at right a gles thereto, substantially as and for the purposes herein set forth -BOBBIN AND THREAD-HOLDER FOR SPINNING MA 83,354

Obj09. Dopping And Trings include for the first include to the second se

REISSUES.

53.291.-CAR COUPLING.-J. J. Gest, Cincinnati, Ohio Dated

Interferences.-When each of twoor more persons claim to be first in-ventor of the same thing, an "Int-rference" is declared between them. and a trial is had before the Commissioner. Nor does the fact that one of the par-ties has already obtained a patent preven such an interference; for although the Commissioner has no power to cancel a patent already issued, he may, if he finds that another person was the prior inventor, give him also a patent, and thus place them on an equal footing before the courts and the public. b5,291.—UAR COUPLING.—0. 0. 0000, on one of the second March 20, 1866; reissue 8, 161. I claim, in combination with arched or elliptic springs, having reversed curves at or neartheir ends, a correspondingly curved or inclined block abutment or bearing, so that, as the spring secules or yields under its load it will practically become shorter and stronger, but still retain its elastic quai-ity, and be firmly held in place and to the block or bearing, substantially as been never near and represented.

(19) And be drink heid in place and to the fock of dearing, substantiarly as here n described and represented.
(74,919.—WASHING M.ACHINE.—Alford Lamb, Mary E. Lyman, and W. H. Morse, Jeffersonville, N. Y. assignees of Alford Lamb. Dated Feb. 25 1868; ressue 3,162.
1 clam, 1:t, Flue combination of the base, B, supported by springs, and a srip or strips of rubber, C, arranged as described
2d. The combination of the avove with the fluted roller, D, substantially as described

and thus place them on an equal rootat before the courts and the physic. **Caveats.**—A Caveat gives a limited but immediate protection, and spar-tical arly useful where the invention is notfully completed, or the model is nor ready, orfurrher time is want-dior experiment or study. After a caveat has been died, the Patent Office will not used a patent for the same inventor to any other person, without giving notice to the Caveator. who is then al-lowed three months time to fite in an application for ap 4tent. A Caveat, to be of any value, should contain a clear and concise description of the inven-tion, so far as it has been completed, ulustrate by drawings when the ob-ject admits. In order to file a Caveat the inventor needs ny to send us a letter containing as, etch of the uventor, with a description in his own words. Address MUNN & CO., 37 Park Row, New York. Additions can be made to Caveat at any time. A Caveat runs one year, and can berenewen on payment of \$10 a year for as long a period as desired the the containing as the acceleration of the second t described.

15 334.— HARVESTER CUTTER.—J. G. Perry, Kingston, R. I., assignee, by mesne assignments, of C. W. Glover, Roxbury, Conn. Dated July 15, 1586; reissue 3,163. I claim, 1st. The combination, with the guard fingers, of the oscillating or rocking ledger blades or cutters, constructed with recesses in their upper sides, substantially as and for the purpose specified. 2d, So arranging the ledger blades or cutters, constructed as described, within the guard fingers, that they may have a rocking or socillating more

NOVEMBER 4, 1868,

74.169. -BALLASTING VESSELS.-J. B. Stoner, Leopold Men-delson, and Theodore Crommelin, New York c ty, assignees of J.B. Stoner. Date Feb. 4, 1968; rensue 3.167. We claim, 1st, A ballas ing weight, L, applied on the free end of a swinging arm in combination with a recess made in the bull of a vessel; to receive stat weight and arm, and a tube, P, substantially as described. 2d, The use of one or more weights, secured to stiff rods, and applied to a vessel in such manner that they can be lowered considerably below a vessel's keel, or raised and secured within recesses formed in the bottom of a vessel, substantially as described. 3d, A temporary ballast, consisting of a weight secured to the lower ends of one or more rods, and appled to it into a socket for med in the vessel, and operated from the deck, substantially as specified.

DESIGN.

3,212.-CLOCK CASE.-Karl Muller (assignor to Nicholas Muller), New York city.

Inventions Patented in England by Americans. [Compiled from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS.

2,680.-APPARATUS FOR EFFECTING AERIAL PROPULSION.-John Hunter, MORTIELOWD, N. J. Aug. 26, 1868.

2,692-PROJECTILES FOR ORDNANCE AND FIRE-ARMS,-W. H. Shock, Washington, D. C. Aug. 31, 1868. 2.694.—CETTING NIPPERS.—Nathan Thompson, Brooklyn, N.Y. Aug. 31, 1868.

2.704.-Loom -George Crompton, Worcester, Mass. Sept. 1, 1868. 2,758.-ROTARY ENGINE.-George Whitcher, Brooklyn, N.Y. Sept. 7, 1868

2,774.-STRAM BOILER.-Joseph Nason, New York city. Sept, 9, 1868. 2,780.--PUMP-James Wilson, Bridgeport, Conn., and Chas. F. Mudge, Lyno, Mass. Sept. 9, 1868.

2.818.—SUBSTITUTE FOR HAIR STUFFING, FROM VEGETABLE FIBERS,—Na-than W. Blanchard, Dutch Flat, Cal. Sept. 14, 1868.



beginning. If the parties consulted are honorable men, the inventor may safely con-nde his ideas to them: they will advise whether the improvement is proba-bly patentable, and will give him all the dilections needful to protert his rights. Messrs. MUNN & CO., in connection with the publication of the SCIENTIFIC AMERICAN, have been actively engaged in the bublication of the SCIENTIFIC

Mesars. MUNN & CO., in connection with the publication of the SciETTFIG AMERICAN, have been actively engaged in the business of obtaint g patents for over twenty years-mearly a quarter of a century. Over Fitty The usand inventors have bad benefit from our coulsels. More than one third of all patents granted are obtained by this firm. Those who have usade inventions and desire to consult with us are cor-dily invite dovide them by letter. In all cases the ymay expect from us an *honest opinion*. For such consultations, opinion, and asvice, we make no charge Apen-and ink sketch, and a description of the invention should be sent, logether with stamps for return postage. Write plainly, do not use penell nor pale link; be orfet. All buserscommitted to our care, and all consultations, are kept by us servet and strictly confidencial. Address MUNN & CO. 31 Park Kow, New York.

secret York.

Preliminary Examination.-In order to obtain a Preliminary Ex-amination, make out a written description of the invention in your own words, and a rough pencil or pen-and-ink sketch. Send these with the tee or §5 by mail, addressed to MUNN & CO., S7 Park Row, and in due time you will receive an acknowledgement thereof, f.llowed by a written report in register to the patentability of your imployement. The Preliminary Exam-ination consists of a special search, which we make with great care, among the models and patents at Washington, to ascertain whether the improv-ment presented is patentable.

ment presented is patentable. In Order to Apply for a Patent, the law requires tha a model shall b) furnshed, not over a foot in any dimensions—smaller if possible. Send the model by express, pre paid addressed to Munn & Co., 37 Park Row, New York, together with a descrip ion of ite operation and merits. On receipt tiereof we will examine the invention carefully and advise the party as to its batenability, freedo tharge. The model should be neaty made of any suitable materials, strongly faste en ed, with out glue, and neatly painfed. The name of the inventorshouldly-entraved or pounted uponit. When the invention consists of an improin-ment up n some other machine, a full working model of the whole machea-with the arcses, the naure and operation of the inventore of all kinds, are painen able. When the invention consists of a medicine or compound, or a new article of manufacture, or a new composition, samples of the article must b fur-nished, neatly put up. Also, send us a full statement of the ingredients, pro-portions, mode of preparation, uses, and merits.

Reissues.—A reissue 's granted to the original patentee, his heirs, or the ussumees of the enture interest, when by reason of an insufficient or defective specific-tion the original patent is invalid, provided the error has arisen from inadvertence, accident, or mistake, without any frandulent or deceptive

Interion. A parentee may, at his option, hav. in his reissue a separate hat nt for each distinc part of the invention compresended in his original application, hy naving the required fee in each case, and complying with the other require ments of the saw, as in original applications. Each division of a releasue conscitutes the subject of a separa e specifica-rion descriptive of the part or parts of the invention claimes in such divis-ion; and the straw may may represent only such part or parts. Auress MUNN & CO., 37 Pa. k Row, tor full particulars.

	July 15, 1856; reissue 3,163.	_
ler, Bowen, 111.	I claim, lst. The combination, with the guard fingers, of the oscillating or	Quick Applications, - With from any reason parties are desirous of
I claim, 1st, The knives, G, constructed and operating substantially as and	rocking ledger blades or cutters, constructed with recesses n their upper	applying for Patents or Caveats, in GREAT HASTE, without a moment's loss
for the purposes set forth.	sides, substantially as and for the purpose specified.	of time, they have only to write or telegraph us specially to that effect, and
24, Combining in one machine the knives, G, the seed-sowing box. D,	2d, So arranging the ledger blades or cutters, constructed as described,	we will make special exertions for them. We can prepare and mail the
the sod breakers, F, cultivator plows, K, and harrow, O, substantially as	within the guard fingers, that they may have a rocking or oscillating move	necessary papers at less than an hour's notice, if required.
specified.	ment during the reciprocating movement of the sickle, substantially as here-	
3d, A seed sowing cultivating, and horrowing machine, having seed bex,	inset forth.	Foreign Patents. —American inventors should bear in mind that, as a
D. cylinder, E, crank s, s a, pum en. b b, cranks. d, sod breakers, F, knives, G,	3d. The attachment of the ledger hlades to the guard fingers by means of	generalrule, any invention that is valuable to the patentee m this country is
roller, H, pins, n, plows, K, lever, S, and harrow, O, constructed and arranged		worth equally as much in England and some other foreign countries. Five
substantially as specified.	the trunnions, e, on the blades extending into the cavities, I, in the fingers,	Pates-American, English, French, Belgian, and Prussian-will secure an
83,335.—BEN HIVE.— Upton Stansbury, Plymouth, Ind.	substantially as and for the purpose specified.	inventor exclusive monopoly to his discovery among ONE HUNDRED AND
l claim, 1st, The breeding boxes, C C, closed at their sides and ends, and	21.034.—SEED PLANTER.—J. H. Thomas & P. P. Mast. Spring-	THIRTY MILLIONS of the most intelligent people in the world. The facilities
slotted at the top and bottom. and provided with small glass windows and		of business a, g steam communication are such that patents can be obtained
	field, Ohio. Dated July 27, 1858; reissue 3, 164.	abroad by our citizens almost as easily as at home. The majority of all pat-
entrances. and connected to the cleats, c c, of box, Δ , by means of their	We claim, 1st, The arms, G3, mounted upon the shaft, G2, within the hopper	en's taken out by Americans in foreign countries are obtained through the
grooved sides as herein set forth.	G, substantially as and for the purpose described.	SCIENTIFIC AMERICAN PATENT AGENCY. A circular containing further in-
2d, The arrangement of the outside box. A, with the breeding boxes, C C,	2, The slide, GI, having the openings, b, with the blocks or stops, c, fitting	formation and a Synopsis of the Patent Laws of various countries will be
honey hoxes, 1) D, and slide screens, a and n, substantially as and for the		furnished on application to Messrs MUNN & Co.
pu: poses hercip set forth.	31, The combination of the slide, G1, and blocks or stops, c, with the re-	For instructions "opcerning Foreign Patents, Reissues, Interferences,
83,336. BALANCE SLIDE VALVEWilliam M. Stevenson,	volving arms, G3, all arranged to one ate as herein set forth.	
Sharon, Pa.		Hints on Seiling Patents, Rules and Proceedings att e Patent Office, the Pat- ent Laws, etc., see our instruction Book. Self free by mail on .ppl cation.
I claim a steam valve.cor structed as described, with a cavity, d, between the	75, 510.—RING FOR RING AND TRAVELER SPINNING MACHINE,	
walls.aa, and with packing trips, ve in grooves on the top of the walls aa, stram	-J. W. Wait es, Canton, Mass. Dated March 17, 1868; reissue 3.165.	Those who receive more than one copy thereof will oblige by presenting
be ng admitted through boles, 11, undersaid scrips, pressing them up against	I claim the ring receiver, constructed substantially as described, that is to	them to their trunds
the cap of the steam chest substantially as and for the purpose herein set	say, not orly web a shank to fit the rail socket, and with a hore eccencri.	Adaress all communications to
torth.	with the cylindrical outer surface of such shank, as described, but also so as	MIUNN & CO.,
Iortii.	to be capable of being splung or contracted upon the shauk of the ring, by	No.37 Pa.k'Row, New York city
83.337 WEATHER BOARD GAGES W E Stoldard Fort	th screw inserted in the rail, and employed to confine the receiver in the	Office in Washington, corner of F and 7th streets,
Edward, N. Y.	socket of the rail, as set torth.	Patents are granted for Seventeen Years, the following being a
	Also, the combination and arrangement of the single screw with the ring	scheaple of fees :
I claim the combined weater-board gage and scribe, consisting of arms, A	rall, an with the clamping receiv.r and ring, constructed as hereinpefore	
B, slide, E, the spur proved block, H, hinged bar, I, sliding block, J, and	described, the whole being for the purpose let forth.	On filing esch Caveat
slotted kolle, K, all constructed and arranged to operate as her in shown and		On filing each app ication for a Patent, except for a design,
descrited.	74,871.—COSMETIC J. M. Wilson, Seguin, Texas. Dated	On Issuing each or ginal Patent
83 338.—Corn Planter.—D. F. Taft, New Bedford, Mass	Feb. 25, 1868 ; reissue 3,166.	On appeal to Commissioner of Patents
I claim, 1st, The rock shaft, J, levers, g 1, and disk, erin combination with		Ou application for Ressue
the cords, b 1, section, M, angular lever, H, and Cam. L, attached by a rod to	as a competing, seen in manual and for the propagate the fill as a	On app ication for Extension of Patent
the disk e, all operating as described whereby the partial rotation of the	forth.	On granti g the Extension
rock shaft throws the seeding device out of gear, and folds back the discharge	2d The chloringted alkaling on the alkaling chloridge in complementary with	On filing a Disclaimer
spout simultaneously, substantially as h rein shown and described.	any activitions wash.	Un ning application for Design (three and a half years)
2d, The hinged section, M, of the jointed spout, in combination with the		On filing application for Design (seven years)
pin, l, notched bar, P, and spring, R, all made and operating so that the sec-	3d, The Chlorinated alkalies, or alkaline chlorides, in combination with an	On filing application for Design (fourteen years)\$30
	acidulous wash made from either oxalic. tartaric, or citric acid, either sepa-	In addition to which there are some small revenue stamp tax es. Residents
then were a of the supplication is we are were the host story as portation.	rate or combined, substantially as described.	of Canada and Nova Scotia pay \$500 on application.