Photographic.7

Mr. Valentine Blanchard has made known a very simple and excellent plan for keeping wet plates in a sensitive condition for a considerable time, after removal from the bath The plan is to add a few grains of a salt of bromine-cadmium or ammonium-to the collodion. An old collodion works best. We have tried it with success, adding two grains of bromide of ammonium to the ounce of collodion. In some instances our plates remained three hours in the shield before exposure, and developed without surface stains. The rationale of this method is explained as follows by the *Photographic* News :

The value of a bromide in securing immunity from stains, comets, and other markings has long been known; but its mode of operation in doing this has not been well understood. Its action in permitting long keeping, however, is easily explained. The process of double decomposition, in which the bromide salts employed in the collodion are changed into bromide of silver, is much slower, as is well known, than is the conversion of iodides; and when a simply bromized collodion is employed, the immersion in the nitrate bath needs to be very much prolonged, in order to convert the whole of the bromide in the collodion into bromide of silver. In effecting his purpose Mr. Blanchard just pursues the opposite course. Employing a very highly bromized collodion, he gives the plate the shortest possible immersion in the nitrate bath, keeping it in motion from the first, to get rid rapidly of the greasy, streaky appearance of the plate. The solution running evenly over the film, without streaks or oily-looking lines, which is generally regarded as the indication of sufficient immersion, is, in reality, no test of the conversion of the salts in the collodion film into salts of silver; it merely indicates that the alcohol and etherin the film have become thoroughly mixed with the aqueous solution, and that the mutual repulsion has ceased. Under ordinary circumstances, however, by the time this is thoroughly effected, the mutual decomposition of the iodides originally in the collodion and the nitrate of silver, and the formation of iodide of silver and a nitrate of potash, or other base is also complete. With bromides, as we have said, this operation is not so rapidly completed; if therefore, a collodion film containing a large portion of bromide be immersed and kept in motion so

as rapidly to get rid of greasiness, and then removed after a very brief immersion, the film will contain a large portion of the bromide-say, of cadmium or ammonium-which remains undecomposed, and is not converted into bromide of silver. In this fact lies the safety of the plate for long exposures. The free nitrate of silver-which would otherwise be crystallizing on the surface of the film, or, by the concentration of the so lution caused by evaporation, acquiring a readier tendency to abnormal reduction-now performs a different office : being in contact with the unconverted bromide of cadminm or am monium, it is decomposed by it, and aids in the formation of bromide of silver in the film. Instead of being made stronger by evaporation of water, the free nitrate is made weaker by the loss of the silver which combines with the bromine whilst the nitric acid, combining with the base which leaves the bromine, produces an innocuous, or possibly in some cases a hygroscopic, and therefore beneficial salt. It will thus be readily seen how the use of a large portion of bromide and a very short immersion of the plate in the nitrate bath tend to prevent the stains of crystallization or of reduction consequent on long exposure in warm weather. The mode in which the effect in question is secured in the case described may possibly suggest an explanation of the general action of bromides as aids to clean negatives. It is probable in most cases where a freely bromized collodion is employed, and the plate kept in the nitrate bath the usual two or three minutes, that some portion of unconverted bromide remains in the film, and that the formation of bromide or silver goes on after the plate leaves the bath, the bromide of silver being formed at the expense of the free nitrate on the film, which is thus much weakened. As the use of a weak solution of nitrate silver, at times secured by re-dipping the plate in a weak bath, is known to be conductive to cleanliness, the weakening of the free nitrate by the formation of bromide of silver may also be a source of the cleanliness well known as an accompaniment of the use of bromides.

The amount of bromide in collodion for very" long expo sures may vary from two grains to two and a-half. Any soluble bromide may, we presume, be used without impropriety.

moon's surface. A crater well defined and perfectly well known to astronomers has disappeared within a year, and its place is now marked by a large white spot in the middle of a

plain. It is the first time that any change in the moon's surface has been noticed. M. Chacomar made a like observation,

A correspondent gives us an account of a method of repairing an iron steamer running between New York City and South Amboy, which, in fifteen years' service had become very much corroded externally, although her frame was sound. She was taken out of the water and planked with three-inch vellow pine from the keel to the guard braces, the planks being bolted with five-eighth bolts every linear foot, with large square washers on the inside of the hull; an oak keel was also added and the work was done within five weeks. She is 270 feet long and 30 feet beam, and required over 9000 bolts. She is now believed to be good for at least another fifteen years' work. Parties specially interested in the object are advised to investigate the matter. It is very important if as feasible as our correspondent believes it to be. SOMETHING NEW IN THE MOON.-At a late session of the French Academy of Sciences, M. Delaunay read a paper, by M. Flammarion, on the subject of a recent change in the

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[Issued by the United States Patent Office, FOR THE WEEK ENDING JUNE 18, 1867. Reported Officially for the Scientific American

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65,785.—GLUE.—William Adamson, Philadelphia, Pa.
1 claim a glue consisting of size aerated, or treated with gas, substantially in the manner described.
65,786.—PROCESS OF MANUFACTURING AERATED GLUE.—
William Adamson, Philadelphia, Pa.
I claim the mode or process substantially as herein described of aerating carbonating ide for converting the same into glue.
65,787.—MANUFACTURE OF GLUE.— William Adamson, Philadelphia, Pa.

carbonating size for converting the same into glue.
carbonating size for converting the same into glue.
carbonating size for converting the same into glue.
carbonating Pa.
I claim the combination substantially as described of glue or size with carbonate of soda for the purpose specified.
carbonate trucks connected by pivols to laterally swinging spring beams, arranged sandstantially as described.
data an eight wheel truck, 1 claim the combination of the laterally swinging and equalizing beams, bo y, so arranges that the weight of the load upon the center of the platform, A with be uniformly disposed upon all the axles of the trucks, substantially as described.
data and connecting platform, A, constructed of wood and metal provided with a swinging beam, b, with the stars, b, b', braces, c c, pedestals, a a, steps.
e' e, and saddles, et al. Claim the transverse beams, b' C, metal boxes, e' e, pillo wblocks, d a tulfera straps, g', and the equalizing beams, D, with their spring and connecting loss of the site forth.
c5.790.—FLOUR BOLT.—Elkanah Bateman, Frederick City, Md. I claim the buckets, n, arranged and operating in combination with the bost of postantial in a sheet a sit forth.
c5.790.—CAR SPRING.—Julien F. Belleville, Paris, France.
I claim the spring composed of trunce-conical disks having the form and proportions herein specified, arranged in pairs, united by means of a rod passing through the center of the said disks as shown and described.
c5.792.—FLOAT OR RAFT.—Andrew Carson, Memphis, Tenn.
is, claim constru

65,792.—FLOAT OR RAFT.—Andrew Carson, Memphis, Tenn.
1st.; claim constructing a float for saw milk or the purposes herein described, by securing a s. Biclent quantity of light timber or other material logether in a solid mass, and supporting a platform on the same, substantially as herein described. For the purpose set forth.
2d, I claim attaching side floats to the main float, for steadying the structure, and making room to deposit the sawed lumber, as herein described.
65,793.—GRAIN DRYER.—Lewis S. Chichester (assignor to himself C. W. Mills and G. H. Nichols, Brooklyn. N. Y.
1st. in a grain drying appartus, I claim a chamber above the dre into which air is admitted in large volumes and descends and mingles with the products of combination and passes into the grain dryer, substantially as and for the purpose specified.
3d, I claim the arraneement of the hot and cold air fues, f and n, trunks, g org and valves, 11, and m m, for regulating the temperature of the air as store in dryen, substantially as section to set of the same section.
3d, I claim the structure of the spaces or fues as set forth.
3d, I claim a setter of half pipes crossing the grain chamber and opening at or near both ends into all spaces or fues as set forth. So that the current of air shall pass tbrough and beneath the half tubes and in contact with the Gi, 794.—MACHINE FOR FILLING CYLINDRICAL MOLDS FOR

grain as set form. Gü, 794.— MACHINE FOR FILLING CYLINDRICAL MOLDS FOR RUBERGOODS.-J W. Cobb, Melrose, Mass. I claim so connecting by gear or otherwise the pattern roll, M, with the filling roll, R, that the said filling roll, R, shall always revolve with greater rapidity than the pattern roll, M, made substantially as described and for the purnose set forth.

the purnose set forth. 65,795.—SLATE FRAME.—J. M. & John Connel, Jr.. Newark, O.

I claim a corner casing of elastic or resilient material constructed sub-stantially as described to hook into notenes in the edges of the elate. 65,796.—WOOD PLANING MACHINE.—W. II. Doane and W.

stantially as described to hook into notches in the edge of the slate. 65,796.—WOOD PLANING MACHINE.—W. II. DOANE and W. E. London, Cincinnati, Ohio. Antedated Dec. 18, 1866. 1st, We claim the combination of two or more removable tonguing and growing outter heads, having attaching stoms, formed on or applied to them, two or more spindles with their upper ends below the surface of the planning bed, and a rotary planer, constructed and arranged so as to operate substan-tially as and for the purpose set forth. 2d. Placing the beading shaft of a planing and matching machine within or upon the pressure bar for the several purposes and in the manner described. 65,797.—AXLE BOX.—D. H. Dotterer (assignor to himself and Dillwyn Parrish, Jr. Philadelphia, Pa. 1st, I claim the hollow roller, B, having openings arranged substantially as described, for permitting the lubricating material to pass through the sud roller to the stationary pin, E. 2d. The said stationary pin, E, and its longitudinal groove, q, in com-bination with the hollow roller and its openings. 3d. The stationary pin, E, arranged within the box and confined thereto by the detachable cap or follower, k, and substantially as described. 55,798.—GANG PLOW.—C. L. Eastham, Rhodes Point, III. 1st, I claim the combination of the laver, L, connected to the piow beams and having a fulcrum at or near the axie, A, and hinged bar, C, provided with the iever, I, and having the plows attached theret as described. 56,798.—CAR REPLACER.—N. H. Edugetron, Pottsville, Pa. 1st, I claim the reversible and detachable canting block, K, secured to the rail, A, and the depressed foot, n, substantially as described. 3d. The endimation of the laver, block, K, secured to the rail, A, and the depressed foot, n, substantially as described. 3d, Jie anthe plated incline, D, having a projecting foor, m, in combina-tion with a canting block, K, adjust-d substantially as described. 3d, Jie alim the combination and arrangement of in second claim with the hele

ad described. 65,800.—SPECTACLE.—George D. Edmondson (assignor to himself and Albert R. Clark, Detroit, Mich. I claim the speciacles with lenges each of which consists of two pieces of different relative convexity and set at a different angle in the bezel, substan-ticity or described

tally as described. 65,801.—Rock Excavator.—W. H. Elliot, New York City. Sheathing Iron Vessels with Wood. 65,801.—ROCK EXCAVATOR.—W. H. Elliot, New York City. Ist. I claim the combination of car, a, track, h', and drilling machine, e, when said machine is suspended from a car, substantially asherden shown and described. 2d, Platforma, c. in combination with car, a, and drilling machine, e, sub-stantially as and for the purpose herein set forth. -3d, Adlustable support, f and f', in combination with car, a, and drilling machine, e, substantially as and for the purpose herein shown. 4th, France, m', in combination with drilling machine, e, and platform. c, for the purposes herein set forth. 5th, Braces, o, in combination with platform, c, substantially as and for the purpose herein set forth. 65,802.—DRILLING MACHINE.—W. H. Elliot, N. Y. City. 1st, I claim the carriage, k, with springs, n or n', in combination with set in the carriage. (55,802.—DRILLING MACHINE.—W. H. Elliot, N. Y. City. lst, I claim the carriage, k, with springs, n or n', in combination with cranks, h', at d drillspindle, l, when operating substantially as herein shown and described. 2d Frojections, n', and a corresponding collar on the drill spindle, in combination with spring, n, when employed substantially as and for the purpose herein specified. 3d, The combination of crank, h', drill spindle, l, and spring, n, when em-loyed as devices for producing excess of motion in the drill spindle over that given to the connecting rods by the cranks which shall cause the ma-ch ine to feed towards the rock, substantially as shown. 4th, The pawl, n, and fack, n', when acted upon by devices producing ex-cess of motion in the drill spindle over that of the connecting rods for the purpose offeeding the machine towards the rock, substantially as herein set forth. 5th. Plate, m', with its diagonal edge when acting on the notches on the forth. 5th. Plate, m', with its diagonal edge when acting on the notches on the collar, m, to revolve the drill when operated upon by devices producing excess of motion in the drillspindle over that of the connecting rode, sub-stantially as shown and described. 65,803.—PACKING PUMP JOINTS.—Benaiah Fitts, Newark,

65,804.—FRUIT PARER.—D. H. Goodell, Antrim, N. H.

I claim the combination of the arm, V, with the notched slot, S, in the plate, for the purpose described. I also claim the described fruit parer, when all its parts are arranged and operated as set forth rated as set forth

-CIGAR-MAKING MACHINE .- John Hafer and J. A. 65,805.-

600, ---OIGAN MARANA Benderson, Bedford, Pa. st, We claim the backing tube, C, arranged and operating as described, d. The combination as described of a fixed bopper tube or teed pipe with ecuprocating tube, for the purpose set forth. 1, The combination substantially as described of a fixed hopper tube or d pipe with a punger reciprocating inside and a packing tube reciprocat-ourside the feed pipe for the purpose of filing awrapper with fine-cut feea pi ing ont to bacc

65,806.-SORGHUM STRIPPER.-David Hain, H. A. Gross and

65,806.—SORGHUM STRIPPER.—David Hain, H. A. Gross and Martin Hain, Gasconade county, Mo.
1st, We claim two pairs of semi-elliptical knives, c2 c3, one pair of which is to be placed in front of the other, substantially as described and set forth.
2d, We claim the farible handles, c7, in combination with the knives, c2 c3, for the purpose of allowing the said knives to yield readily to any varia-tion in the size of the stalk passed between them.
3d, We claim the knife handles, C7, and the toggle bars, D, when combined as herein described and set forth for the purpose of opening or raising the knives, C8.
4th, We claim the knife handles, C7, the toggle bars, D, when constructed and arranged substantially as herein described and set forth.
65,807.—TYPOGRAPHIC MACHINE.— Tho. Hall, Bergen, N. J.
1st, I claim weights attached to the type levers when they are so arranged that they act with less power when the type is making its impression it.

That they act with less power when the type is making its impression than at any other position. 2d, The stop mechanism, 1111, and hollow shaft, 2' substantially as de-scribed. 3d, The arrangement for moving table, by varying length of levers to suit each type, su betantially as described. 4th, The method ot spacing between letters and words by a variable length of lever, J, by which the space for each letter is increased or diminished equally, substantially as shown. 5th, Moving paper by the clutch, n, on straightrod, m, substantially as de-scribed.

Circled. 6 L, Lever, Q, and connections for moving table, substantially as described. 7(h, Parall el motion for moving table backward and forward, substantially as described.

as described. Sth. Ring, R, or its equivalent, for stopping type when making an impres-sion. 9th, Automatic stop operating when the printing has reached the end of the line, substantially as described. 10th, Varying the length of movement of the table, P, or substance to be printed upon by crusing the keys to move different distances before acting on the feed mechanism.

printed upon by clusing the keys to more under the second second

alent, constructed and operating substantiation with the slide, H, or its equiv. Sd, The electric hammer, E, in combination with the slide, H, or its equiv. alent, and with the pendulum switch, G, constructed and operating substan-tially as and for the purpose set forth. 4th, The sadile, p, on the electric hammer, E in combination with the serviced by, q, on the slide, H, or its equivalent, constructed and operating substantially as and for the purpose described.

substantially as and for the purpose described. 65,809. — LEMON SQUEEZER. — Oswald Hesselbacker and Henry Moesta, Detroit, Mich. 1st, I claim the construction of the frame of a lemon squeezer of the parts, A and B, and a circular bracket. C. which latter is subplet for receiving and supporting a straining cup, D, beneath a plunger, E, substantially as de-scribed.

supporting a straining cup, D, beneath a plunger, E, substantially as de-scribed. 2d, The combination of the vibrating slotted cam lever, G J, and plunger, E, with the cup, D, and its supporting segment, C, construct dand arranged substantially as and for the purposes described. (55.810.—SEED PLANTER.—C. T. Holman, Conneautiville, Pa. 1st, I claim perforating the shenk of the furrowing tooth and arranging the seed tube to pass through it, substantially as described. 2d. I claim arranging the hoppers on and hinging the furrowing, seeding and covering flatures or devices to the blocks, J J, arranged to traverse be-tween ways and adapt the planter to rows of different widths, substantially

so described. So described. So described. So described. The swipzing bar, Q', worked by the cam, Q, and so arranged as to work and operate the several parts in the different portions in which they may be placed to vary the with of the rows planted. 4th, I 'lsim making the swinging bar. M', which connects the shank of the furrowing to oth to the link so long that the toot had link may be traversed on it, substantially as described, in adjusting the machine to rows of different widtha.

widths. 65,811.-

winths. 65,811.—WATER ELEVATOR.—Thomas Holmes, Bristol, R. I. I claim the combination of the brake lever, G, and pawl, F, with the gear wheels. D C, when arranged substantially as described and for the purpose set forth.

wheels. D. C, when arranged substantially as described and for the purpose set forth. 65,812.—BREECH-LOADING FIRE-ARM.—W. W. Hubbell (as-signor to himself and J. H. Orne), Philadelphia, Pa. 1st, I claim the breech, B, with its rear face. c, secured firmly in the con-caved froht of the ordinary screw base, a, of the barrel by the fixed shaft or center, b, with this breech, B, poperating the breech. (.', under the side ribs, n', by means of the link, D, and locking by their faces, fand e, and by the prolection, d, into the bore of the barrel, all within the recess substantially as described. 2d, The detachable check pieces. E E, arranged for the introduction of the breech. (.'. to and its withdrawaifrom the recess and the rear of the barrel, substantially as described. 3d. The single retracting bar, G, moving in a groove, 4, in one of the two opposite sides of the recess, both in loading and extracting the cartifica-shell by the breech. 5, in the slot, 9, and intercepted at each end of the latter by the breech. C, substantially as described and shown. 4th, The stationary rear striker. 12 and the breech. B, and its striker, 11 operating together as described both with and winout the ront striker, 12 operating together as described both with and winout the ront striker, 13 of the ribs, n', in combination with the rear space, w, and with the re-

when the ends of the striker and preces are convert, and with the re-specified. 5th, The ribs, n', in combination with the rear space, w, and with the re-tractor, G, to insure the insertion of the flange of the shell in the rear of the retractor head, 6 as described. 6th, The combination of the breech, 'B, link, D, breech, C', retractor, G arm, F, with the strikers. constructing and operating together successively in the recess and with the barrel to insert, fire, withdraw, add eject the primed ammunition or shell, as described.

in the recess and with the barrel to insert, fire, withdraw, add eject the primed ammunition or shell, as described. It is a cough MIXTURE.—P. M. Huffman, Harvard, Ill. I claim a cough mixture which is composed of the several ingredients mixed together in about the proportions specified. 65.814.—CARPET LINING.—M. A. Johnson, Lowell, Mass. I claim as a new article of manufacture a felted hair bat, or its equivalent, covered with strips of paper on one or both of its sides, and leaving interven-ing uncovered spaces between the strips for ihe dust to pass through. 65.815.—SHOE HOLDER.—L. C. Keeler, Montrose, Pa. I claim as boe holder constructed as described consisting of the standards, B B', one or more, provided with hooks, stirrup or plate, A, and clasp, D, substantially as herein shown and described. 65.816.—I'ARLON TENPIN ALLEY.—E. W. Keyes, Boston, Mass.

Mass. I claim a parlor alley made with movable or folding buffers, D D', substan-tially as described and for the purpose set forth. 65,817.—CONSTRUCTION OF SIGNS.—G. H. Kitchen, New York

65,817.—CONSTRUCTION OF SIGNS.—G. H. Kitchen, New York City.
Iclaim a prismatic illuminator formed of an opyque case with openings to which prisms are applied, substantially as and for the purposes set forth.
65,818.—APPARATUS FOR WASHING AND SEPARATING COAL.
.—C. A. Comp, New York City.
Ist, I claim the arrangement of the grinding rollers, C. and elevator, D. in combination with the assorting drum, E, constructed and operating substan-tially as and for the purpose set forth.
3nd, T. ie arrangement of the assorting drum, E, in combination with the separating machines, G. constructed and operating substantially as and for the purpose described.
3d. The arrangement of the drying drum, A. in combination with the sep-arating machines, G. and assorting drum, E, constructed and operating substantially as and for the purpose set forth.
(55.819.—FENCE.—I. L. Landis, Lancaster, Pa. I claim so constructing the ranges of a fence that one of the rails of each acting the rails of each and second the drying drum and the selecting the rails of each is the the rails of each and assorting drum by the rails of each and assorting drum by the rails of the rails of each is find the rails of each and assorting drum and the selecting and assorting drum by the rails of each and assorting drum by the rails of the drying and and second assorting drum and the drain of the drying and and second and second

N.J. Ist, I claim the packing composed of india-rubber, or other similar sub-stances, formed or constructed substantially asset forth and described, that is to say, a packing made by applying the prepared india-rubber in the plastic state to the different surfaces as shown, and compressing it to fit all the inequalities, recesses or grooves in the metal, and being made in vulcan-izing to adhere itmly to one part of the metal leaving the other to be freely removed.

removed. 2d, I claim a pump valve composed of a metallic case in which is confined india-rubber adhering to the metal by being vulcanized therein and forming an elastic face, as described.

OD.019.—FENCE.—I. L. LADGIS, LADCASTER, PA. Iolaim so constructing the ranels of a fence that one of the rails of each panel shall overlap the corresponding rail of the adjoining panel and secure ing the same together by a wire renew, in the manner specified. A also claim specially the mode of fastening shown in Fig. 5. 65,820.—CIRCULAR COKE OVEN.—F. J. F. Laumonier, Aug-ers France.

ers, France. Ist, I claim a circular coke oven composed of any suitable number of radial compartments converging toward a central chimney, substantially as

radial compartments converging toward a central chimney, substantially as herein described. 2d, The combination with the radial compartments of a circular coke oven as described of the flues for conducting the products of combustion from the said compartments to the central chimney under the arrangement here-in shown and specified. Sd, The combination with the radial compartments provided with open-ings in their top of the circular rallway passing over the said openings, as and for the purposes set forth.¹ 4th, The application and use in connection with the herein-described coke oven of the water conduit or pipe encircling the same, substantially as and for the purposes herein specified.

65,821.-SHAFT COUPLING.-W. E. London and John Rich-

ards, Cincinnati, Ohio. We claim the use of two conical sleeves within two separate conical shells arranged to actindependently on each shaft and forming the two halves of a shaft coupling, as herein set forth and described.

65,822.-MELODEON.-La Fayette Louis, Providence, R. I.-

65,822.—MELODEON.—La Fayette Louis, Providence, K. 1.— Antedated June 11, 1867. Ist, Iclaim combining with a tremolo valve, h. hinged directly to an im-movable or fazed valve seat, an auxiliary valve, g, for regulating the direct passage of the air from the reads to the bellows, substantially as described. 2d, i also claim in combination with the valve, h, the lever, m, and its counter-balancing weight; d, when this lever is pivoted or hung directly in or to the valve board, substantially asset forth. 3d, Applying such weight to the lever by menns of an adjusting screw, substantially as set forth. 4th, Combining with the valve, g, the bittons, r, made adjustable with re-spect to the valve seat, ambatantially as described. 5th, Also combining with a tremolo valve, h. and a direct passage valve,

12

a lever extended down from the valvet osuch position that it may be oper-ated by the knee or toot of the performer, substantially as set forth. 65,823.—APPARATUS FOR HEATING CHEESE VATS.—Henry W. Millar, Utica, N. Y. 1st, i claim, in combination with one or more cheese vats, a heater con-structed of metallic pipes, substantially as herein described and set forth. 2d, Connecting a coil of metallic pipes which forms either wholly or in part the heater of a cheese vat with one or more perforated pipes, G, placed in said cheese vat, substantially as here in described and for the purpose specified.

In same cneese vat, substantially as here in described and for the purpose specified. 3d, in combination with a cheese vatand a circulating heater for said vat, the arrangement at the heating pipes, 6, and the cool water pipe, E, sub-stantially as here in described and for the purpose specified. 4th, The combination of the pan, H, with a coil heater, D, and one or more cheese vats, when constructed and arranged substantially as here in described and for the purposes specified. 5th, The use of the eccentric legs or levers, in combination with a cheese vat, constructed and operating substantially as here in described and set for the .

65,824.—LIFE BOAT.—M. V. Nobles, Elmira, N. Y.

ist, I claim covering the hold of a life boat with a flexible air and water-tight to voring supported by and fastened to a sustaining frame, substantially as described.

as described.³ 2d, I also claim making the cover of a life boat of double rubber or other cloth with airspace between so that it may be infiated and thus made more buoyant, substantially as described. 3d, I also claim ventilating the hold of a life boat through a hollow mast furnished with separated passages whether by natural or artificial currents of out-going impure and incoming fresh or pure air, substantirily as described. 65,825.—BOAT-DETACHING TACKLE.—M. V. Nobles, Elmira, N V.

N. Y. I claim, in combination with hinged and dropping holding heads, the lift-ing and lowering rods, L and the locking and unlocking arms, b, all operated by one lever or one shaft so that the whole may be within the control of one person, substantially as and for the purpose described. 65,824, --METHOD OF UNLOADING GRAIN.-Isaac H. Palmer,

Lodi, Wis. 1st, I claim valves in the floors of cars, carriages, etc., for drawing off grain or other materials without han 31ing the same, substantially as described. 2d. The slide valves, b, in combination with the racks, e, pinions, i, and shat, D. substantially as described. 3d, The pivoted valve, c, in combination with crank, i, substantially as de-scribed.

65,827.-GLOVE FOR HUSKING CORN.-Albert W. Preston,

Mazon, Ill. I claim a husking glove made to cover the back of the hand, thumb, and Ingers, and the fronts of the ends or first joints of the thumb and fingers with a strap around the thumb and wrist, substantially as shown and de-

with a strap around the thumb and wrist, substantially as shown and de-scribed. I claim a husking glove with the front of the fingers and thumb covered or shod with sheet metal, substantially as described. And in combination with the plate on the thumb, I claim the spur or pro-jection, G, on said plate. And in combination with the plate on the forefinger, I claim the spur or projection, K, on said plate for opening the husks on the ears of corn. And in combination with the plate on the forefinger and the spur for open-ing the husks, I claim the projection or arm, J, to rest on the back of the middle finger to prevent the plate form there is a strate of the spur for open-ed, so as to adapt the backs of the fingers to lace up, substantially as describ-ed, so as to adapt the glove to fingers of different sizes. 65.828.—MILK CAN.—William Ralph, Utica, N. Y. Ist, I claim the socket, a, when applied substantially as described for the purpose mentioned. 20, The combination of the plate, B, socket, a, and handle, C, for the pur-pose set forth.

purpose memorical procession of the plate, B, socket, a, and handle, C, for the purpose set forth.
2d, The combination of the plate, B, socket, a, and handle, C, for the purpose set forth.
45,829.—STAY OR BRACE FOR BOOTS OR SHOES.—Timothy K. Reed, East Bridgewater, Mass., assignor to himself and Elmer Townsend, Boston, Mass.
I claim the application and arrangement of a metallic bracestay or can with respect to the junction of the sides of the silt in the upper of a balmoral boot or shoe, as herein described.
Also, as an improved manufacture, a balmoral boot or shoe as provided with a stay brace or cap arranged with respect to the junction of the sides of the silt of its upper, as hereinbefore explaned.
65,830.—PROCESS OF REFINING IRON, STEEL, AND OTHER MEAS.—Jacob Reese, Pittsburgh, Pa.
1st, I claim refining iron, steel, and other metals, by means of a blast of atmospheric air, or other de-carbonizing blast in a refnery or finace beated with eoke or other de-arbonizing blast in a refnery or finace beated with eok or other de-carbonizon or or gas, for the purpose of suprocess of metallic oxide for protecting metals from the infuence of carbon, substantially as hereinbefore described.
3d, The use of a hydro-carbon liquid, yapor, or gas, for the purpose of removing snlphur and phosphorus, or either of them, from iron, steel, or other metals, in the process of refining from liquid, yapor, or gas, for the purpose of receinbed.
4d, The use of a hydro-carbon liquid, yapor, or gas, for the purpose of receinbed for edescribed.
4d, The use of a hydro-carbon liquid, yapor, or gas, for the purpose of receinbed for edescribed.
5d, Sill ___MACHINE FOR MANNG. FISH BARS FOR FAUROAN

65,831.—MACHINE FOR MAKING FISH BARS FOR RAILROAD

RAILS—Jacob Reese, Pittsburgh, Pa. I claim the combination of the moving die, o, and stationary grooved die, o', with the punches, s' s', operating and arranged substantially as described for the purpose of pressing, punching, and bending fish bars at one oper-ation. 65,832.-MACHINE FOR STRAIGHTENING CYLINDRICAL BARS

65,832.—MACHINE FOR STRAIGHTENING CYLINDRICAL BARS or METAL.—Jacob Reese, Pittsburgh, Pa. 1st, I claim rolling and straightening cylindrical rods, bars, shafts, and ta hes or pipes of iron, steel, or other metals, between the conical faces of re-volving disks or the conical ends of revolving rolls, arranged substantially in the manner and for the purposes above set forth. 2d, The pair of revolving colls, arranged as described, so as to revolve in opposite directions, having their axes of revolution inclined so as to bring their operative faces, forming the bite of the disks, parallel to each other, and having their axes in slightly different planes for the purpose of giving a combubed rotary and forward motion to the metallic rod bar shaft or the held between the bite of the disks, substantially as hereinbefore de-scribed.

giving a combined rotary and forward motion to the metallike rod bar shaft or tube held between the bite of the disks, substantially as hereinbefore de-scribed. 3d, The combination of a pair of rolls or disks, d d' having ronical ends or faces, with the restroller, n, arranged and operating substantially as herein-before described. 4th, The combination of the screw, p, with the a zle, o', and disk or roll, d', from its corresponding disk or roll, b, substantially as above described. 65,833.—PAPER BRIM.—C.E. Etichards, North Attleboro,Mass. I claim a brait or band composed of a series of paper threads or strands united toge ther, and to be used as and for the purposes setforth. 65,833.—SULKY PLOW.—John C. Rogers, Alden, N. Y. 1st. I claim connecting a sulky to a plow by means of the link or nuiversal, 2d, The combination and arrangement, with a plow of common construc-tion, of the rack, D, link, DJ, plinion, E, crank shaft, El F, weighted pawl, G, and ratchet wheel, GL all arranged upon a sulky, in the manner and for the purpose substantially as described. 4th The sprint rost, I when constructed and used for the purpose, sub-stantially as described. 4th, The sprint rost, I when constructed and used for the purpose, sub-stantially as described. 45,835.—WINDOW-SASH SUPPORTER.—Blaney E. Sampson, Boston, Mass, assignor to himself and J. B. Proctor, Fitchurg, Mass. I claim the combination as well as the arrangement of the inclinate plane, the spring latch, i, arranged in the window frame, the whole being substan-tially as described. 45,835.—WINDOW-SASH SUPPORTER.—Blaney E. Sampson, Boston, Mass, assignor to himself and J. B. Proctor, Fitchurg, Mass. I claim the combination as well as the arrangement of the inclinate plane, the spring latch, i, arranged in the window frame, the whole being substan-tially as described. 45,836.—MODE OF BOXING OL CANS.—David Saunderson, (assigner to four Burger) & Lowin Massigner to four Burger) & Saunderson,

tially as described. 65,836.—Mode of Boxing Oil Cans.—David Saunderson,

00,550.—MODE OF BOXING UIL CANS.—David Saunderson, (assignor to John Ringer), St. Louis, Mo. I claim the combination of the wooden box, B, can, F, and wedge, A, as abovenamed and described and for the purposes set forth. 65,837.—SAD IRON.—William Siefert, New York City. I claim as ad iron having stem, C, with spiral spring, s, and projection, a, thereon, in combination with the slot, vv', with the upward projection there-in, as described, when constructed, arranged, and operating as herein speci-fied.

65,845.—MODE OF DRESSING SIDE STRAPS FOR HARNESS.— James F. Valentine, Union County, Ohio. I claim the combination and arrangement of the knives or bits, f f, with the box or trough, together with the fevers, b b, the pin or bolt, c. and the widening or regulating screws, d d, substantially as set forth and for the pur-pose there in named.

65,846.—Apparatus for Burning Petroleum and other 65,846.—APPARATUS FOR BURNING PETROLEUM AND OTHER HYDRO-GARBORS.—Henry C, Van Tine, Pittsbureh, Pa. I claim the use of a fire pan filled or partially Filed with gravel or small stones and supplied with petroleum or other hydro-carbon fluid by a pipe or pipes, in combination with a perforated pipe or pipes for admitting jets of steam into the fire space above the surface of the gravel, substantially as and for the purpers. hereinbefore described, 63,847.—COMMENT.D COTTON PLOW AND SCRAPER.—Thos. P. Warren (assignor to Warren & Woodhouse), Norfolk, Va. lst, I claim the standard, B, having the broad flange, x, the slots, b b, and the arm, z, substantially as and for the purpose described. 2d, The combination of the standard, B, and the flanged supporting attach-ment, C, substantially as and for the purpose specified. 3d, The scraper guide, K, attached to the landside in the manner and for the purpose above shown.

3d, The scraper guide, A, attached to the manufacture of the purpose above shown. 65,648.—MANUFACTURE OF SORGHUM SUGAR.—Rufus Watson and Thomas Spencer, Central College, Ohic. ist, We claim the herein described process of granulating sirup; the said process consisting in having the sirup flow over a shelf or shelves, or their equivalent, of suitable length and inclination, so as to effect granulation, ubstantially a described of the purpose set forth. SE 040 TEX CANSTER.—Wm. Welbourne, Preston, Great

purpose set förth. 9.—TEA CANISTER.—Wm. Welbourne, Preston, Great

Britain. I claim a canister having partitions and doors arranged and operating sub-tantially in the manner and for the purpose described. 35,850.—POT FOR LEAD BATH FOR TEMPERING STEEL, ETC. 65.850.

65,850.—PTOT FOR LEAD BATH FOR LEMFERING STEED, BAS —Charles V. Wilson, Newark, N. J. I claim the pot or bath made of wrought and cast iron combined substan-tially in the manner and for the purpose hereinabove specified. 65,851.—LAMP BURNER.—Moses B. Wright, Meriden, Conn. I claim a lamp burner provided with two wick tubes, be, one of which, e, is placed above and not surrounding the other, b, and which communicates with aclosed chamber below, substantially in the manner and for the pur-mons est forth

pose set forth. 65,852.—MODE FOR FURLING AND REEFING SAILS.—William

65,852.—MIODE FOR FURLING AND KEEFING SAILS.— William Wyatt. New Bedrof, Mass. I claim the combination and arrangement of the furling and reeding too-galant sails and royals by means of head lines and luff lines running through blocks on the upper and under sides and ends of the Yard, and travelers affixed to the sail and running in grooved ways formet by securing metallic plates to the sail, as herein described, operated by raising and lowering the yard as set forth, for the purpose specified, 05,853.—MACHINE: FOR MAKING MATCH SPLINTS.—Chas. L. Zeidler, Cincinnati, Ohio. I claim the knife constructed in one piece, with punches, K K, and rear-ward prolongations, J J, all as herein described and for the purpose speci-fied.

Ward protongations, 5 v, an az definition of the defi

b) of the fault of the second second

65.881.—CHEESE VAT.—J. H. Orumo and L. Zone, — Rayter, N.Y.
We claim the employment of cast iron heaters, B, in combination with pipe, b, hot water iscket, c, and milk vat, C c, constructed substantially as and for thou prosess set forth.
The float, f, inconnection with supply pipe and valve, d, e, heaters, B, and milk vat, C, as and for the purpose herein described.
65,882.—CAR COUPLING.—Geo. E. Cuming, La Fayette, Ind. I claim the combination in a nutomatic car coupling of the draw hsad, A, hinged piece, B, stirrup, C, andspring sup porting the same with the shackle bar, D, sai(t parts being respectively constructed and arranged subst.ntially as set forth. ams, New Orleans, La. Ist, I claim the mortise, C, in the bed of the machine, to admit the tie backle er fastening and to accomplish its adjustment to the hoop by the same motion which bends the hoop. 2d, The spring, G, as set forth above. The probability of the set of the

3d, The indentation or oval shape in the handle, at the point, I, and at the points, H, to form the bend over and under the spring, G, substantially as described and represented. 65.857.-STOPPER FOR BOTTLES, JUGS, ETC.-J. B. Aletan-

15.858. -WASHING MACHINE.-George Arnold and Jacob

Greve, Cleveland, Ohio. Ist, We claim the rubbing board, C, as arranged in combination with the board, D, provided with angular notches, a', arms, L, and springs, O, for the urpose and in the manner set forth. 24, The rubbing-board, C, rollers, LL', as arranged in combination with the celler, J, springs, E, and box, A, as and for the purpose described.

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65,859.-LAPPING-BRAID.-William Rhodes, Providence, R. I. I claim is the machinery for measuring and larping braids, tapes, etc. aving a shifting and prelive stop motion, substantially as herein described. 2d, The sliding shaft, a, the spring, c, the ping, r, and the cam, b, on the car wheel, C, combined and operating substantially as and for the purposes orein described.

65,860.—Street Lanterns.—J. P. Avery and W. L. Nichols,

50,500.—STREET LANTERNS.—J. F. AVETY and W. L. NICHOIS, Norwich, Com. We claim, 1st, The combination with the lantern head or frame of air tubes, b, arranged tor supply of air to the flame substantially as specified. 2d, The Independent frames, D E, in combination with the rope or cord packing, d, arranged to fit a groove, c, in one frame and clamped or held to-kether to hold the frame in between them essentially as herein set forth. sether to hold the frame in between them essentially as herein set forth. 65,861.—FEED ROLLERS FOR LAMP WICKS.—Charles H. Bag

Rether to hold the frame in between them contains, and the second seco

with the combination iron and cement pipes, substantially in the matter and for the purpose described. 24, The constructing the flange, a, upon the tube or nipple at an intermediate point between the ends thereof, as shown in Fig. 4 of the drawings, so that when the device is applied to a cement lined pipe the cement lining shall not be liable to break off in tapping, substantially as described.

65,864.-WOOD TURNING LATHES.-Frederick Baldwin, Brat-

theoror', Vt ist, i claim the method as herein substantially described, of operating the catters, on the rotating disk, A', by means of the dors, h k, the spring, i, the toe, J, the collar, o', the pin or rod, p, and the arm, L, which are moved and oper-ated by the the revolving patturn through the rod, m. Ad, I claim the clutch, V', which is placed between two bevel gears, for the purposes described and which is operated by a shifting lever and a sliding bar substantially asset for th. 65,865.—COTTON PRESSES.—W. C. Banks, Como Depot, Miss.

I claim in combination with a cotton press substantially such as described by the proving at one end of the beam that carries the screw plates and sw and the curved guide, or frame, f, and windlass and cords, or their eq lents for moving said beam, substantially as, and for the purposes h described and represented. described and represented. 65,866.—Hydro-Carbon Fluid for Carbureting Gas.—

set forth and for the purpose specified. 2d, In combination with the annular folding sun shade, the elastic inner edge, substantially as herein set forth for the purpose specified. 65,872.—AIR PUMPS FOR MARINE ALARMS.—Samuel G. Ca-65,872.

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bell, quincy, III. I claim the double acting air pump constructed substantially as described and charged with a dense finic packing in combination with the draft and blast whistles, G, I, substantially as and for the purpose set forth. 65,873.—COPVING PRESSES.—Samuel G. Cabell, Quincy, III.

I claim the slotted eccentric, E, and roller, a, combined and arranged with relation to the platen, G, and bridge, H al constructed and operating sub-stantially as herein set forth. 65,874.—STEAM GENERATOR.—Thomas S. Clogston, Boston,

Obj. 74.—DIEAM CHENERATOR.—Investor of Chegaran, Mass. I claim a boiler or steam generator composed of one or more generators, A, in which the upright or circulating flues steam chamber or chambers and lower arched flue are arranged substantially in the manner herein specified. I also claim the combination with the boiler or steam generator, of the tabular casing surrounding the feel supply door, substantially as and for the purposes set forth. 65,875—Cultriv ATOR.—B. C. Cochran T. W. Cochran, and J. M. Cochran Pana. Ills.

M. Cochran, Pana, Ills. Ist, We claim the metallic frame, D, with seat, E, plates, a a, plow frames, G G, and plows, i, all constructed, arranged and operating in the manner and for the purposes herein specified. 2d, The shorel frames, G G, arranged with rods, H H', and m, for shifting the loops. b b, and levers, F F, for elevating the shovels in the manner as set forth

10rcn. 65,876.—CARRIAGE.—Caleb Conderman, Hornellsville, Ills. I claim the springs, E, in combination with the body or frame, A, substa tially as and for the purpose described. -RICE CULTIVATOR.-George W. Cooper, Ogeechee, 65.877.

577.— KICE CULTIVATOR.—George W. COOper, Ogecchee, Ga. assignor to himsoft and James V. Jones, Herndon, Ga. 55, I claim the combination and arrangement of the braces, A B B', and braces, G G, substantially as and for the purpose described. d, The method above described of fastening the teeth, E E E, to the beams two holts, situated obliquely to the grain of the wood substantially as and the nurnose specified.

by two holds, situated conjugity to the grant of the wood substantially to the 3d, The inclimute and bending of the cultivator teeth, EE, outward and backward upon the point of attachment to the beam, A B B', substantially as and for the purpose described. 65,878.— MEAT MANGLE.—G. A. Cover, Maccomb, Ills.

vith

claim a mean manker. Construction of the corrigated roller, R, provided the the cogs, c, and the sliding plate, B, provided with the cogs, a, and ing its surface roughend when arranged to operate as described. 879.—MANUFACTURE OF BELTING.—James B. Crane, Dal-65.879.

65,880.—PURIFICATION OF COAL GAS.—Alexander Angus Croil, London, England. I claim the employment in the purification of coalgas of wood or vegetable matter when carbonized substantially as herein described. I also claim the employment of sulphate of lime in combination with the said carbonized matter, substantially as and for the purpose described.

65,881.—CHEESE VAT.—J. H. Crumb and L. Sears, De

REVERING, &c—Samuel Davis, New York City. 1st, I claim the arrangement of cistera, A, the coil, B, and the pipes, CED, and $r_{\rm sin}$ combination with a ket the or bolier for the purposes herein de-

active and a second of the latter of bond for the physics includes a sorthed.
 2d, Discharging a stream of water into the discharge pipe of a boiler for the purpose of increasing the draft from the boiler substantially as described.
 65,885.—STEAM ENGINE GOVERNORS.—Thomas S. Davis, Jersey Citv, N. J.
 I claim the combination of the plate, G, having a scroll H, with the bar, I, pin, a, arranged to operate across or at right angles or nearly so to the same, substantially as and for the purpose described.
 65,886.—INSULATORS FOR TELEGRAPH WIRES.—Alfred B.

Day, Oak Creek, Wis. I claim the lugs, B and F, made of glass or other suitable non-conducting material in combination with the wooden plug, C, on the inside of the cast from cylinder, A, all made and operating substantially as herein shown and described

fron cylinder, a, a limade and operating substantially as international and described. 2d, So constructing the shell, A, that the cap, G, can be held down by the cross head, I, when the insulator is attached to the same all as herein shown and described. 65,887.—TREADLE FOR SEWING MACHINES AND OTHER PUR-PORES.—Noel B. Devol Marshall, III. I claim the ratchet wheel, H, secured to the crank shaft, B, of a sewing machine arm, I, having spring pawi, 12 pitman rod, K, supplementary treadle, J, and spring, M, or its equivalent when all combined and arranged together so as to oper ate substantially as and for the purpose described. 65,888.—RooF FOR RAILROAD CARS.—Charles Dummeldin-ger. Cleveland, Ohio.

65,888.—ROOF FOR RAILROAD CARS.—Charles Dummeldinger, Cleveland, Ohio.
 I claim the stay bands, E, tubular ends, C, as arranged in combination with the sheath, F, and car zoor, A, for the purpose and in the manner set forth.
 65,889.—COMBINED SEWER, PLANTER AND CULTIVATOR.—Daniel Duncan and E. R. Ridgley, Olney, Ill.
 We claim the shaft, G, having the fixed armature, H, working the second-ary bottom of the seed box, D, and having the fixed armature, K, regulated by means of the lever and treadle, I, substantially as and for the purpose described.

described. 2d The ring, F, on the end of the roller, E, provided with projecting arms fff, substantially as described. 3d, The division of the shaft, M M', to which are attached the drill teeth, into two equal parts M and M', independent of each other and regulated by means of their respective treadles, n, n', substantially as and for the purpose described.

means of their respective retainer, it, it, substantially described. 4th, The combination and arrangement of the spring L, the secondary bot-tom of the seed box, the shaft, G, with its two armatures, K and H, and the roller, E, having the ring, F, with its arms, ff fi, attached substantially as and for the purpose specified. 5th, The combination and arrangement of the drill teeth attached to the shafts, M M, the seed box, D, and therollers, E E', substantially as and for the

purpose specified. 65,890.—SASH SUPPORTER.—James H. Durham and Sanford

60,000.—2ASH SUPPORTER.—James II. Durnam and Samotu Rising, Lafayete, I.d. Antedated December 18, 1866. We claim arubber cam having a V-sbaped recess, wherein is placed the spring, E, as constructed with screw pivof, G, passing through the collar, C, with a wing, c, for spreading the spring, when arranged between the plates, A, in the manner and for the purpose set forth. 65,891.—WAGON-SPOKE MACHINE.—Chas. C. Dupue, Wayne, Mash.

Leim and incharing the Child and a side and a side and	and the curved guide, or frame, F, and windlass and cords, or their equiva-	05,001.—WAGON-SPOKE MACHINE.—Onas. O. Dupue, Wayle,
I claim a sad iron having stem, C, with spiral spring, s, and projection, a,	lents for moving said beam, substantially as, and for the purposes herein	Mich.
thereon, in combination with the slot, vv', with the upward projection there- in, as described, when constructed, arranged, and operating as herein speci-	described and represented.	I claim securing the spoke in position to be acted upon by means of the
fied.	65,866.—Hydro-carbon Fluid for Carbureting Gas.—	pivoted dog, R, substantially as herein shown and described.
	John A. Bassett, Salem, Mass.	65,892,—Compound for Tempering Steel—William G.
65,838.—Composition for Matches.—E. K. Smith, Phila-	1st, I claim a hydro-carbon liquid used for the purpose above named, pro-	Esser, Milwankee, Wis.
delphia, Pa.	duced by the combination of the coal and petroleum hydro-carbons, as	I claim a compound for tempering steel tools, composed of the above in-
I claim a composition, consisting of the materials described, for the pur-	described and set forth.	gredients in about the proportions named.
pose specified.	2d, Adding to the photometric valve of gases by carbureting with the	65,893.—STRAW CUITER.—William H. Evans, Richmond,
65,839.—NUMBERING MACHINE.—Sam.Soule,Milwaukee,Wis.	hydro-carbons produced by the combination of the light products of the dis-	
1st, I claim the stamp frame with its shaft and plate, J, cylinder, a, ratchet,	tillation of coal and petroleum.	Ind. Antedated June 10, 1867.
st, i claim the stamp frame with its shart and plate, 5, cylinder, a, fatchet,	3d, The process substantially as set forth of manufacturing hydro-carbons	1st, I claim the rock shaft, E, slotted arm, F, pawls, 1 and 2, and spring, L,
S, type wheels, v v v, irames, B C, dog, d, and dogs, ef, all constructed and arranged substantially as and for the purposes set forth.	for carbureting gases by combining the hydro carbons of coal and petroleum	in combination with the eccentric wheel, D , and feed roller ratchets, J and
2d, The arrangement of the arm, E, plate. F, roller frame, H, with rollers,	in variable proportions as set forth.	K, arranged and operating substantially as set forth and described.
K R, and spring, c, in combination with the revolving table, M, and screw,		2d. The stop, G, arm or lever, H, and rack, I, in combination with the rcck
P, when used in the manner and for the purposes set forth.	65,867.—CORN HUSKER.—E. M. Bates, East Rochester, Ohio.	shaft, E, as and for the purpose set forth,
3d, The guide frame, X, and rubber, Z, for regulating the printing of the	Ohio.	65,894.—FASTENING FOR PAPER COLLARS.—Charles R. Ever-
type by means of its slide, x2, in the manner and for the purposes specified.	I claim a curved or scroll corn husker constructed in the manner and for	son, Palmyra, N. Y.
65,840.—MEDICAL COMPOUND.—Jas. H. Sperling, Peru, III.	the purpose described.	I claim a fastener for collars composed of plate, B, having a clasp, D, hinged
05,040.—stepical compound.—Jas. II. Spering, 1 et u, III.	65,868—CORN SHELLER.—F. A. Bolles, Unadilla, N. Y.	to it, and provided with a loop, G, substantially as described.
I claim the combination of the said ingredients in the proportions designat-	I claim combining with a stationary concave a yielding shelling cylinder, by	65.895.—BELTING.—C. J. Fay, Philadelphia, Pa.
ed substantially, and applied in the manner set forth.	means of springs as shown and described said springs may be made of rub-	I claim the use of and the manner of arranging paper for belts and straps,
65,841.—DITCHING MACHINE.—Nathan Starbuck, Wilming-	ber or steel or any other suitable materal, when constructed as and for the	
	purpose as herein specified.	
ton, Ohio.		65,896.—VEGETABLE LIFTER.—Christopher C. Fellows, Cen-
I claim the combination of the vertically adjustable yoke, F, cutting wheel, G, lever, H, scraper, I, suspended in the rear of said wheel, G, to the hinged	65.869.—METHOD OF SUPPLYING LOCOMOTVE TENDERS WITH	tre Sandwich, N. H.
pendant. g, and fender, K, arranged and operating as and for the purpose	WATERWalter J. Brassington, Brooklyn, and William Burtnett, New	I claim as my invention the new manufacture of egg or vegetable litter,
hcrein set forth.	York City.	made ashereinbefore described, viz.: from one piece of wire bent at its mid
	1st, I claim an air tight tender tank of a locomotive engine, provided with	dle, and also bent at or near its two ends in conical spirals or helices, as set
65,842.—METHOD OF BOTTLING MINERAL WATERS.—Charles	a pipe communicating with the locomotive boiler, also with devices for	forth.
H. Thomas, Philadelphia, Pa.	atta hing a pipe which is designed to lead into a reservoir or well of water.	65,897.—DEVICE FOR MEASURING LIQUIDS.—Albert Fickett
1st, I claim bottling or drawing water from mineral wells or springs under	for the purpose of supplying said tank with water, substantially as described.	bojeen DEvice Fon Mensendra Engeless misere Fonett
pressure, substantially as described.	2d, The comb ination of the secondary air tight water tank. E, and its spray	and Justin C. Ware, Titusville, Pa. 1st, We claim the arrangement of the vessel, B, secured within the tank, Λ ,
2d, I claim taking the water from a point in the well or spring below the	pipe, f, with the primary tank, C, substantially in the manner and for the	and used in connection with a valve and stop cock, substantially in the man
point of discharge, substantially as described.	purposes described.	ner and for the purpose specifie.
3d, I claim the use, in a universal well or spring, of the perforated dia-	3d, The arrangement with an air tight tender tank, C, and pipes A and D,	2d. In combination with the above an indicator, arranged as and for the
phragm, a, as herein set forth.	ofreservolr, G, which is constructed to operate substantially as specified.	purposespecified.
4th, I claim the charging of mineral waters with an extra supply of gas,	65 970 WARDING MACHINE Alex Drooks Wangely N.V.	
either in the well or in the tank, substantially as herein described.	65,870.—WASHING-MACHINE.—Alex. Brooks, Waverly, N. Y.	65,898.—VISE.—Orlando V. Flora (assignor to himself and
65,843.—Awl.—S. E. Totten (assignor to himself and Cyrus	1st, I claim The combination of the circular slats, or ribs, B, circular plates,	William A. Collins). Madison, Ind.
Josepheren W. S. D. Totten (assigned to minisch and Cyrus	C, and breast beams. D, with each other, and with the box, A, of the machine,	1st, I claim the rear jaw, D, constructed substantially as herein described,
L. Topliff), Brooklyn, N. Y.	substantially asherein shown and described and for the purpose set forth.	in combination with the approxit R and alidiog have C as and for the purpose
I claim an awl, having a longitudinal groove, D, as herein set forth for the	2d, The pivoted hammer E, and weight, H, constructed arranged and oper-	not forth
purpose specified.	ated substantially as herein shown and described in combination with the	2d. The front law, G, pivoted at its lower end to the lower end of the ver-
65,844.—PRESERVING FRUIT.—W. H TRISSLER, Cleveland, O.	box, A, as and for the purpose set forth.	tical pin, bearing the nut. F, and fitting in the vertical hole of the sliding bar,
I claim the pipe, D, and plate, B, as arranged in combination with the can,	65,871.—Pocket Sun Shades.—James W. Browne, N.Y.City.	C, as he rein set forth for the purpose specified.
A, when used for the purpose and in the manner described,	1st, I claim the annular folding sun shade constructed substantially as herein	3d The combination and arrangement of the front jaw, G, short screw, 11
• •		

nut, F, and sliding bar, C, with each other, substantially as herein shown and described and for the purpose set forth. 4th, The combination of the key, J, with the end of the sliding bar, C, and with the piroting pin of the nut, F, substantially as herein shown and de-scribed and for the purpose set forth. 5th, The combination of the support, B, sliding bar, C, and jaws, D and G, with each other, substantially as herein shown and described and for the purpose set forth. 655 800 - Churgs - Conrad George Ligonier Pa

with each other, substantially as herein shown and described and for the purpose set forth. 65,899.—CHURN.—Conrad George, Ligonier, Pa. Ist, I claim the combination of the double alternating levers, J K L, and the partitioned churn box, A, all arranged substantially as and for the pur-pose set forth. 2d, I claim arranging the levers. J K L, in a diagonal position as shown for the purpose of bringing the working ends of the levers, K L, over the cen-ters of the churn divisions, A A' as and for the purpose set forth. 3d, I claim the combination of the perforated dashers provided with the valves, R and S , having the movevents described, with the purfitton, B, furnished with the holes, b' b', and beveled slits, c' c', substantially as and for the purpose set forth. 65,900.—CALIPER RULES.—A. W. Goddard, Clinton, Mass. ist, I claim the blades a, when arranged as and for the purpose described. 2d, The combined caliper and slide gage rule, when arranged substantially as and for the purpose set forth. 65,901.—LIFF-PRESERVING MATTRESS.—John Golding, New

-LIFE-PRESERVING MATTRESS.-John Golding, New

York City. I claim the life raft constructed as described, consisting of the cork mat-tresses of floats, secured together by means of the spring hooks a, and sta-ples b, as herein set forthfor the purpose specified. 85,002.—WINDOW SASH.—D. R. Gould, Chestertown, N. Y. I claim the strips C C, secured upon the face of the sash by means of screws, in combination with the grooves d d, in the trame, as and for the purpose set forth 65,903.—PESSARY.—W. G. Grant, Clyde, Ohio.

I claim a sponge pessary, made of conical shepe A, outside, and provided with the hollow, B, substantially as described for the purpose specified. 65 004.— T LOOK CLOTH.—Thomas Griffin, Roxbury, Mass. I claim a floor covering or imitation oilcloth, made substantially as hereir constitution.

-CLOTHES DRYER.-R. Hamblin, Mishawaka, Ind. 65.905.-

63,905.—CLOTHES DRYER.—R. TRAININ, INFINITATION, AND AND TRANS. INC. I claim the combination of one or more sets or tiers of jointed radial arms D, and the supporting or connecting wires E and F, or their equivalent, with each other, and with the central shaft, A, substantially as herein shown and described and for the purpose set forth. 65,906.—CONVERTIBLE STOVE DOOR AND FENDER.—C. Har-ris and P. W. Zoiner, Cincinnati, Ohio. 1st, We claim the convertible stove door and fender, substantially as set torth.

1st, We claim the convertible stove door and render, substantianty as see forth. A. The arrangement of convertible door and fender A B F, and hearth de-pressions D and E, substantially as represented and described. 65,907.—COMBINED MILK RACK AND FRUIT DRYER.—C. B. and G. W. Hart, Victor, N. Y. We claim the combined milk rack and fruit dryer, provided with loosely pivoted slats forming the shelves, capable of being opened or closed by the wedge bar beneath, the whole constructed and arranged as described, and operating in the manner set forth. 65,908.—ELEVATED RAILWAY.—Charles T. Harvey, Tarry-town. N. Y.

65,908.—ELEVATED RAILWAY.—Charles T. Harvey, Tarry-town, N. Y. 1st, I claim the combination of the rail plates or supports J J, with the rails I, and bars M, when constructed and arranged substantially in the manner and for the purpose derein set forth. 2d, I also claim the elastic plates or springs R, in combination with the rails, constructed and arranged substantially in the manner herein described. 3 d, I also claim the platform frame E, with its upright ends or flanges O, in combination with the rails, constructed and arranged substantially as herein described. 65,909.—ELEVATED RAILWAY.—Charles T. Harvey, Tarry

town, N. Y. 1st, I claim the combination with the track of an elevated railroad of an open or transparent floor beneath the rails, so as to allow the transmission of light to the space beneath the railroad, substantially as set forth and de-

or light to the space beneath the railroad, substantially as set forth and de-scribed. 24, I also claim the panels D, in the columns A, for the purpose of closing the openings in the lower part of the said columns, and also to strengthen the columns, substantially as set forth and described. 3d, I also claim the adjustable column A, made in the divisions a b, sub-stantially as described. 4th. I also claim the wedge-shaped rings C, or their equivalents, in com-bination with the adjustable column A, substantially as described. 5th, I also claim the hollow supporting columns A, in combination with an elevated railroad, substantially as and for the purposes described. 6th, I also claim the pulleys, T, in combination with the supporting col-umns A, substantially as and for the purposes described. 7th, I also claim the combination of the stay rods V, with the elevat rail-road, said stay rods connecting said railway to the buildings or other sup-ports on the streets, and forming also awing frame supports, substantially as set forth.

as set forth. St. J. also claim a filling of wood or equivalent material, in combination with said columns, substantially as and for the purposes described. 9th, i also claim the water trough along the inat, and its discharge pipe in combination with an elevated railway, substantially as and for the purpose described.

65.910.

described. 65,910.—CARRIAGE.—James Hatfield, Cleveland, Ohio 1st, I claim the centers, a', constructed with radial arms, b, in combination with the bands, B, spoke, d, and ke s, f, substantially as and for the purpose described.

described. 2d, The wheel B, spindle C, as arranged h combination with the stays D, boxes E E', for the purpose and in the manner as set forth. 3d, The cross rail K, arm L, links L', and brackets M, in combination with the the D, and screw G, as and for the purpose substantially as herein de-

scribed 5, and below by a bar of the purpose substantially de broch at 4th, The stay D, screw pins, I G, in combination with the spinlle C, axid tree A, substantially as and for the purpose set forth. 5th, The adjusting screw 0', coupling 0, and reach K', arranged substan tially as and for the purpose set forth. 65,911.—STEAM PUMP.—William N. Henderson, Philadel

b) and the strangement of the pump steam cylinder and housing as described.
a) the arrangement of a vacuum chamber enveloping the pump canal.
b) the arrangement of a vacuum chamber enveloping the pump canal.
c) the arrangement of the cross head arm E, connecting rod, F, eccentric pin shaft K, and slot-headed valve stem J, when constructed and operating conjointly in the manner and for the purposes herein set for the 5,912. — AMALGAMATOR. — R. W. HOWARD, Warwick, R. I.
c) the tale the tationary of fixed pan A, having its bottom provided with

65.912.—AMALGAMATOR.—R. W. HOWArd, Warwick, R. I. 1st, I claim the stationary or fixed pan A, having its bottom provided with radial grooves a, and an annular gutter or trough B, around its edge, in com-bination with the rotating pan B, fitted within A, and provided at its exterior with fianges I J, and heles h, in its upper part, and provided at its center with an upright hollow hub F, having holes g, in its lower part to admit the pulp down between the bottoms of the two pans, all arganged substantially as and for the purpose specified. 2d, The adjustable jacket G, on the hollow hub, F, operated by the screw H, in combination with the fixed plate K, in the pan E, substantially as and for the purpose set forth. 65,913.—BOLT TRIMMER.—Henry Howe, Oneonta, N. Y. I claim the cam-shaped sharply-beveled knife C D, pivoted to and in com-bination with the bA and man g a hole in B to receive the object to be trimmedby the knife CD. 65.914.—FURNACK FOR BURNING PYRITES FOR THE MANU-

bit indication of the second secon

1st, I claim the bridge D, steppped in loops C C, and provided with the box F, secured by thumb screws L, all constructed and arranged as set forth. 2d, The bridge D, post N, swatts E I, pinions J G, driver B, and shaft N constructed and arranged as set forth.

65,916.-EGG CUTTER.-Francis L. King, Worcester, Mass. I claim the combination of two or morecutter shafts B, having cutters E, attached, with the gearing C D E, arranged and operating essentially as set

sand shart being connected with suitable mechanism for rotating it.
3d. One or more suitable valves for the admission of air, and pipes for the discharge of the compressed air or gas.
65,940. — MACHINE FOR HEADING CARTRIDGE CASES.—Timothy I. Powers, (assignor to J. P. Fitch and J. R. Van Vechten), N. Y. City.
Ist, I claim in cartridge headms machines the combination with the header of an and operating together substantially in the manner described, of the sectional or divided diff. Narranged and operating together substantially in the manner described, of the sectional or divided diff. Narranged togripho or close round the shells so the mandrel or mandrels before and whilet the shell is bring: upset and header of an automatic gage or shell adjuster, arranged so as to set the closed end of the shell to the shell substantially as and tor the purpose herein specified.
3d. The combination with the series of shell mandrels and header of an automatic gage or shell adjuster, arranged so as to set the closed end of the shell to the purpose herein specified.
3d. The combination with a series of shell mandrels and header of an automatic gage or shell adjuster, arranged so as the shell, substantially as and for the purpose therein specified.
3d. the combination of the header upon the shell, substantially as and for the purpose therein specified.
3d. the combination of the varies of shell mandrels and suitable header, a shell take-off K, constructed to operate essentially as described or in any other equivalent manner.
3d. The for the solution with a series of shell mandrels as and for the purpose there in set off.
3d. The combination of the varies substantially as and for the purpose there in set off.
3d. The disted way, M, in combination with the lever, q, for closing the sectional die, all constructed and arranged substantially as and for the purpose to and die, sufficient and way, the side the substantis as and for the pu Ing spring braces, d, d, d, the whole being attached to the board or plank A, all in combination operating substantially in the manner herein described for the purposes settorth.
 65,967.—FURNACES.—C. W. Trotter, (assignor Gommengin-ger & Trotter,) Rechester, N. Y.
 ist, I claim the peculiar construction of the main body, A, in connection with the inner body, a, with iri ingular flues. n, n, n, n, all in the manner and for the purpose herein described.
 2d, I claim a double radiator, C, connections, o, o, and double damper, k and 1, with rod, m, also two tiers of smoke pipes, 4, d, d, and e, e, e, all in the manner and for the purpose herein set forth.
 65,968.—ROLLERS FOR ROLLING OLD RAILS.—J. P. Verree and W. A. Mitchell, Philadephia, Pa.
 We claim in three bigh rolls series of grooves in each roll, shaped substan-tially as described.
 We also claim grooves of the particular form represented by Figures 1 and 2, produced respectively by the conjunction of the groove of one roll with the groove of another.
 65,969.—CHIMNEY COWL.—John A. Waggoner, Kilgore, O.
 I claim the wings, A, plate, D, and sides, E, when constructed and arranged in combination with a chimney, as and for the purpose set forth.
 65,970.—BEDSTEAD FASTENING.—J. B. Wardwell, George-town. D. C.
 L shut the montise plate constructed with a rotating side to close upon the 65,917.-METHOD OF COVERING WHIPS.-Gamaliel King (assign or to himself and Charles C. Fratt), westneid, Mass. 1st, I claim a water proof coating, consisting of the ingredients herein 1st, 1 claim a water proof coating, consisting of the ingredients here shown and described. 2d, The application of the dissolved caoutchouc, with or without the lea andoll, to a whip, substantially as and forthe purpose shown. 55,918.—CULTIV ATOR.—Joseph Koehn, Canton, Ohio. I claim, ist, The frame A, with diagonal bars A' A', for connecting th shove is D, when constructed in the manner and used for the purpose sci to purpose the purpose sci sentially as herein set forth. 65,941.—FORGING APPARATUS.—John Price, N. Y. City. 1st, I claim the combination with the hammer head of a rack spring and silding catch, substantially as and for the purpose set forth. 2d, Operating the shiding catch, J, by means of the lever, g, which con-nects and disconnects the power for driving the hammer, the said lever, g, being connected for that purpose to the sliding catch, J, by their eduvalents in such a manner that the said sliding catch, J, will be thrown inward to catch the hammer when the power is disconnected and drawn out to release the ham-mer when the power is disconnected and drawn out to release the ham-mer when the power is applied by the lever, g, substantially as and for the for the purpose set forth. shove is D D, when constructed in the manner and used for the purpose set forth. 2d, The arrangement of the lever e, spring t, pin z, in combination with the axle b, rack s, for the purposes specified. (55,919.-MACHINE FOR DEESSING LEATHER.—Charles Korn, Wortsborough, Ind. 1st, I claim theth harpeners f and when arranged on a sliding block G, eitherse parate or in combination with the pleaner e, all made and operating substantially as hereins hown and described. 2d, The knike or knives E, when secured obliquely upon an endless apron, and when arranged in combination with the obliguely set frame F F', and grooved block G, in such a manner that the said block is moved by the knife, substantially as set forth. purpose set forth. 65,942.—MACHINE FOR GRINDING AND POLISHING.—Thomas 65,970.—BEDSTEAD FASTENING.—J. B. Wardwell, Georgetown. D. C.
Iclaim the mortise plate constructed with a rotating side to close upon the neck of the dovetail tenon of the rail, and to open to permit the withdrawal of the tenon, substantially as described.
65,971.—RING SPINNING FRAME.—Joseph W. Wattles, Canton, Mass.
Iclaim as my improvement in the ring spinning frame, or machine, the application of the tenics, b, to its support rail, A, in such manner that while the spinning of the yarn or threas and the winding of it upon the bobbin, may be in the act of taking place, the ring may be free to be moved and centralized with respect to the bobbin by the draft of the yarn on the trade and the ring socket, so formed as to allow the ring to play diametrically as and for the purpose set forth, the purpose of such screws and slots being as herein before explained. 94,942.—MACHINE, FOR GREEDING AND FOLISHING.— FIOHES Prosser, New York(ity. 1st, I claim thecomplication of the wheels, s', pawls, u₄', friction wheels ph, and screw, I, with the reciprocating carriage for ostablishing an auto matic feed motion, substantially as described. 2d, Thereciprocating carriage, f, with its frame or vise, G, made adjusta ble thereon, parallel or angularly to the axis of the grinding wheel in the manner described 3d, The up and down adjustable frame F F', in combination with the slid-ing block G, and knife or knives E, all made and operating substantially as herein shown and described. The interval of the parallel of algorithm to the adjustable to the grinning wheel in the manner described. 3d, The triction gear wheels, h₂, made adjustable as regards their bird ing action, one upon the other substantially as and for the purpose set fort 65,043, $-B_{\rm RTCK}$ KILN.—Stephen D. Rader, Williamsport, Pa I claim the peculiar construction and arrangement of furnaces, B B and C C, when used in connection with the kiln, A, as and for the purpose speci-4th, The block G, and knife or knives E, in combination with the spring m and trame F F', all made and operating substantially as here in shown an described. described. 5tb, The knife or knives E, when arranged on an endless apron A, in com-bination with the sliding block G, and sharpeners f and 1, and clearner e, all made and operating substantially as herein shown and described. 65,920.—FILING MACHINE.—Thomas H. Lindley, Taunton, fied. 65,944.—Escapement for TIME-PIECES.—Herman Reinecke 65,944.—EscAPEMENT FOR TIME-PIECES.—Herman Keinecke, New York City. Antedated June 10, 1887. I claim pallets, pp', mounted on the oscillating arbor, b, in combination with the lever, C, lifting spring, r, pins, d e G, candigatinge, B, all constructed and operatingsubstantially as and for the purpose desoribed. 65,945.—SECTIONAL MOLDS FOR PUTTING UP BUILDINGS of CONCERTE AND OTHER MATERIALS.—John R. Richards, Mount Joy, Pa, assignor to himself and Alfred L. Mennez, Civereland, Ohio. I claim secties of sectional molds, A B, for the outer face, and another se-ries, H I, for the inner face of walls, in combination with the door, window Mass. I claim the combination of the sliding carriages C C, supported in the adjustable bearings B B, and operated by the wheel i, and the adjustable tabl m supported and applied substantially in manner and for the purpose as se 65,972.—HINGES FOR LAMP BURNERS.—Wm. Webb, (assignor to the Scoville Manufacturing Co.). Waterbury, Conn. I claim the hinge, A. havtag one of its leaves provided with a projecting rest orstop-ploce. D, and made substantially as herein described and for the purpose spenning. 65,921.—STEAM VALVE.—Thomas H. Lidford, North Adams 65,973.—PRINTER'S INK.—M. Weissberger, St. Paul, Minn. Mass. I claim the arrangement of the wedgeshaped pieces D and E, with refer ence to the shaft G, and collars d and e, substantially as described. I claim the printer's ink above described, compounded and usod substan-tially as and for the purposes specified.

65,922.—APPARATUS FOR FORMING MOLDS FOR THE PURPOSE or CASTING METAL.—Albin H. Lowell, Manchester, N. H.
I claim, in combination with the pattern attached to the plunger, as set forth, the endless chains C, the plates s, the stops or barst u, the tube or punch c', and the flask F, as above set forth and described and for the pur-pose of making molds for castings.
65,923.—CENTRIFUGAL MACHINE FOR DRAINING SUGAR.— Alexander Mackey, New York (Hty. Ist, I claim the combination with the centrifugal cylinder of a stationary distributer, arranged within the cylinder on one side of it, adjacent to the feed, and operating substantially as specified.
2d, The stationary distributer, C constructed essentially as shown and de-scribed, in combination with the centrifugal cylinder B, and arranged in re-lation thereto as here in set forth.
65,924.—MODE OF FORMING EMERY WHEELS—C. G. Mar-hall, Florence, Mass.

505,322.—MODE OF FORMING EMERY WHEELS—C. G. Marshall, Florence, Mass. I claim the use of concrete lime or cement in the formation of emery wheels, substantially as and for the purpose herein set forth. 65,925.—CAR WHEEL.—G. B. Massey, New York City. 1st, I claim a car wheel composed of the disk A, having the solid hub A' with the disk B fitted to turn loosely on the hub and held thereon by the car C, as set forth.

Lasset forth. 2a Set forth. 2d, The car wheel, consisting of the disk B, provided with the flange e, in 5 ombination with the disk A, having the solid hub A', said disks A and B, being held together by means of the cap C, substantially as described.

65,926.-MACHINE FOR COATING HATS. - Jules Francois

65,926.—MACHINE FOR COATING HATS. — Jules Francois Mathias and Desirc Mathurin Legat, Paris, France. 1st, We claim a machine for felting hats, made and operating substan-tially as brein shown and described. 2d, The bollow shaft K, combined and connected with the shaft H, by means of springs R, substantially as herein shown and described. Sd, The beating apparatus P, in combination with the spring Q, substan-tially as herein shown and described. the three arrangement of the valve e, and passage or conduit f, in combina-tion with the channel F and face B, all made and operating substantially as herein shown and described.

herein shown and described. 65,927,—MANUFACTURE OF ILLUMINATING GAS.—George A.

Molhenny, Washington, D. C. lst, I claim the prevention of the deposit of carbon in gas retorts by the means described or by any equivalent means. 24, I claim so arranging the pipes or tubes leading from the retort to the hydraulic main that the mouths of said pipes or tubes can be sealed or un-scaled at pleasure.

hy draine main that are bounded on the provided and provide and providing the hydraulic main of a gas factory with two or more 3d, I claim providing the hydraulic main of a gas factory with two or more piper for the excape of the coal tar, when said pipes are arranged at different hights and provised with cocks so that the liquid contents of the main may be made to occupy a higher or lower level therein, substantially as and for the purpose set forth.

65,928.—IDENTIFYING BOX.—Levi T. McNieley, Danville, Mo I claim an identifying box constructed substantaully in the form herein de-scribed, for the purpose of identifying and aiding in the securing of lost ani-65,929,-

als and goods. 5,929.—WEATHER STRIP.—Isaac H. McOmber, El Paso, Ill. I claim the arrangement of the false rim C, with the grooved door cleats H H, and the strip D, substantial by as and for the purpose set forth. 65,930.—METHOD OF ADJUSTING ROLLERS.—Samuel M. Me-

65,030.—METHOD OF ADJUSTING ROLLERS.—Samuel M. Me-cutchen, Philadelphia, Fa.
Iclaim the arrangement, substantially as described, of the wedges, sliding bearing b, and set screw f, with a rolling mill, fofthe purpose specified.
65,031.—BRICK MACHINE.—JORATHAN Mills, Des Moines, Iowa, assign or to himself, Lewis J. Brown, Charles S. Spofford, and Henry Van Luther an.
Ist, Iclaim the horizontal pug tub or mill, constructed and arranged sub-stanuially as described, in relation to the moid wheel and the other parts of the machine, substantially as herein shown and described.
2d, I claim dropping back the follower or relleving the brick of pressure, substantially as and for the purposes specified.
3d, I claim theorargement, substantially as shown and described, by which the apron is operated, as and for the purpose set forth.
65,932.—STOD F ASTENING.—Ben jamin Moser and David Yellot, Brooklyn, N. Y.
We claim the fastening for buttons, etc., herein described, the same consist-ing of the arms D D2, and spring or other suitable catch, substantially as specified.

65,933.

Specified. J. J. S. B. B. B. B. B. B. B. Sping of total values of the state of the specified of the specified of the specific of the specif

10, 303. — LARTING Controlling mour, Ind. I claim the tanning liquid composed of theingredients in or about the pro-portions substantially as described. 55, 935. — LAMP. — E. D. Norton, Bradford, Pa. I claim a safety valve constructed and applied substantially as and for the purpose described.

-MELODEON, ETC.-Amos Nudd, Waupun, Wis. 65.936. I claim in combination with the keyboard of a melodeon, or similar reed instrument, the sounding box C, arranged as shown and described. 65,937.—ROCKING CHAIR AND TRUNK.—Thomas Nye, West-

65,937.—ROUKING CHAIR AND LINEAR AND LINEAR COMPARING STREAM AND LINEAR AND LIN

Telaim, secondly, the support, N, or any thing substantially its equivalent for the purposes set for th and described.
 County, Wis.
 Ist, Ielaim straight edged eccentrics, J and J, when made substantially as described and used to hold the working mechanism, I, P and K, of a washing machine box, A, and the whole combined and operated substantially as and for the purposes described.
 An other any desired altitude within the washing machine box, A, and the whole combined and operated substantially as and for the purposes described.
 The general arrangement of the X, M, PJ, K, and U, kept to any desired altitude by means of the straight edged eccentrics, J and J, when the whole are constructed, arranged and operated substantially as and for the purposes described.
 B61, --CULTIVATOR, --U. T. Stewart, Fayette Co., Tenn.
 Telaim the arrangement of the spring sword, F, F, and the combination of plougbes and scrapers, B, B, two of the scrapers being chopping scrapers, B, B, so as to perform the work above specified.

recess, substantially as and for the purposes described.
65,938.—CULTIVATOR.—Lorenzo D. Pelton and Joseph Barrow (assignors to themselves and Alexis Green), Harrison, Ohio.
1st, We claim a mode of construction whereby the wheels and secondary beam B, may be detached, and by means of auxiliary bolt holes c, in the handles C, and in the sheatheat c', the handles lowered to a convenient hight to be manraged by an operator onf oot.
2d, In combination with the elements of the clause immediatery preceding, we claim the provision of the described mechanism for Heingrether plows from the ground, either temporarily to pass an obstacle, J, or more permanently to allow of moving the implement on a roador otherwise;
F F H and I, add the position of the set, which chables the driver to control these levers and manage the plow handle.
65 0200 Macuum, poor Papopulation Papopulati

troi these levers and manage the plow handle.
65,939.—MACHINE FOR PROPUCING BLAST IN GAS CARBU-RETERS AND OTHER APPARATUX—E. A. Pond and M. S. Richardson, Rut-land, Vt.
1st, We claim a vessel or case divided into two compartments, communi-cating with each other at or near the bottom of the vessel.
2d, A hollow shatt or arborynawsing through the two compartments, hav-ing mounted upon the sides of the dividing partition a series of convolute said shaft being connected with suitable mechanism for rotating it.
3d, One or more suitable values for the admission of air, and pipes for the discharge of the compressed air or gas.

boxing, M N, strips, K, dovetailed joists, J j, all arranged substantially as united by flanges, F, in the manner shown and described. In combination with my sectional moles, I also claim the open interstices when made for the admission of carbonic acid gas for the purpose specified. I also claim the proportions specified for making the composition when in-troduced between sectional molds, in the manner and for the purposeset forth.

13

65,946.—Apparatus for Tempering Steel Plates.—

65,946.—APPARATUS FOR TEMPERING STEEL PLATES.— Christopher Richardson, Newark, N. J. 1 claim the combination of the plates, C and D, with the screw or screws. K. and the heated chamber, U, or their equivalents, when combined and operated substantially as and for the purpose described. 65,947.—HAND SAW FRAME.—Christopher Richardson, Newark, N. J. I claim the improved method of holding saws in metallic saw frames, sub-stantially as shown and described. 65,948.—MACHINE FOR COATING PAPER WITH MUCILAGE, proc.—Henry E. Bile, (assignor to Asa, L. Shinman). New York City.

BTC—**MACHINE** FOR COATING TAFER WITH INCOLLARE, **BTC**—**HENTY** E. Rile, (assignor to Asa I. Sbipman), New York City. I claim a machine for coating paper, etc., in which are comhined a frame carrying a series of brushes whether one or more in number, a platform or table and a reservoir or receptacle for the liquid to be applied by the brushes when all are combined and arranged together so as to operate substantially as described.

65,949.-BURGLAR ALARM.-Henry R. Robbins, Baltimore, Md. 65.949.-BURGLAR ALARM.—Henry R. Robbins, Baltimore, Md. I claim the combination of the frame, A, spring piston hammers, B B, lever catch, E, hingest trigger, D d, and spring, g, constructed and operating sub-stantially as described and represented. 65.950.—DOUBLE SEAMING MACHINE.—J. Rupp, (assignor to himself and Frederick Kieeser), New York City. Ist, I claim the movable slide, d, carrying the supporting plate, f, in com-bination with the disk, A, constructed, arranged and operating substantially as and for the purpose described. 2d, The arrangement of three or more cone rollers, i, in the annular rim, H, in combination with the rising and falling disk, A, constructed, arranged and operating substantially as and for the purpose st forth. Third, The clamping roller, p, in combination with the burring roller, o, and disk, A, constructed, arranged and operating substantially as and for ler purpose described.

Third, The clamping roller, p, in combination with the burring roller, o, and disk, A, constructed, arranged and operating substantially as and for the purpose described. (50,951.—LoCOMOTIVE ENGINES.—S. Samuels, Mott Haven, N. Y., and W. J. Brassington, Brooklyn, N. Y., assignors to themselves, William Pitt, and W. B. Bartnett. Ist, We claim the combination with the tank of a locomotive engine ten-der of an air pump so arranged as to admit of being worked by the engine for the production of a vacuum in said tank, substantially as herein set forth. ² ² ³ The combination with a locomotive engine to a disk ender of a pump so arrange as to serve either purpose a bleas us of the addition of the said of the tender of a pump so arrange as to serve either purpose and bleas the of the said of the said to include the supply of water to be addition of the said cock, d, the and the to hacing a structure and the state of the said cock, d, essen-tally as shown and described. (50,952.--CUTLERY.--William Sanderson, New York City. I claim a handle formed of a metallic frame, cast with or rigidly united to the bolter, and scales or side pieces, subprise the addescribed-(50,953.--APPARATUS FOR SUPPLYING AIR TO LIFE-BOATS.--Peter F. Schenck, Riceville, N. J. I claim an apparatus consisting of tube: combination with sclosed life hoat. for the purpose dashed to operate in combination with sclosed life hoat. (55,954.--WODD PLANING MACHINE.--Frederick Schmidt, Cincinnati, Ohio.

Cincinnati, Ohio. I claim the elongated gains or depressions, e.e., in the two parts of a divided outter, to enable the said parts to be set out in opposite directions, substan-tially as and for the purposes set forth.

65,957.—Instrument for opening Sheet Metal Cans.—

53,93.—INSTRUMENT FOR OPENING SHEET MITTAL CANS.— Frederick Seymour, Nashville, Ten. I claim the new article of manufacture, consisting of theguard, F, in the described combination with the shaft, A, handle, B, elbow, C, point, D, and cutter, F, whether stationary or adjustable. 65,958.—ICE PITCHER.—Michael Simons, Middletown, Ct. I claim theinside bottom, P, and the outside bottom. G, with its devices H and L, when arranged and constructed as herein described and for the purpose set forth. 65,959.—FRUIT LADDER.—Daniel C: Smith, Adrian, Mich. I claim a fruit lader asphown and described with bars H braces P, and

I claim a fruit ladder as shown and described with bars, H, braces, P, and handle, U, as set forth in the specification and drawings; and in combination, I claim, secondly, the support, N, or any thing substantially its equivalent for the purposes set forth and described.

65,962.—CYLINDER PRESS FOR EXTRACTING OIL FROM FISH.— J. G. Stoddard and B. F. Gallup, Groton, Conn. We claim the arrangement and combination of the cylinders, C and D, the apron, B, the hopper, F, and the scraper or chute, G, substantially as de-scribed and for the purposes herein set forth. 2d, I claim the recesses, b, in combination with the cylinders, C and D, sub-stantially as and for the purposes specified.

65,963.—SLEEPING CARS.—John Swan, Baltimore, Md. I claim in a railway car of a series of state rooms, provided with side pass-age and independent ventilation, the combination and arrangement of reser-voir pipes, H, H, and basins, G, in the state rooms, as and for the purpose specified.

forth. The combination of the two adjustable arms with circular tap, e, and nut g, operating as and for the purposesspecified. 65,966.—SORGHUM STRIPPER.—George Tollinger, Wrights-

65,974.—GATE.—S. H. Wheeler, Dowagiac, Mich. Ist. I claim the frame, E, with its rocker, A, in combination with therevolv-ing post, D, as and for the purpose herein specified. 2d, The combination of the frame, E, with the gate and its posts and the cleat, x. or its equivalent, as and for the purpose set forth.

65,975.-BED BOTTOM.-Chas. W. White, Cincinnati, Ohio. n the combined arrangement of the two sets of transverse slats, A he springs, B, siderails, D D', and screws, E, as and for the purpose claim

55,976.—SEED AND GUANO PLANTER.—Thomas W. White, Milledg eville, Ga. I claim, ist, the drum, G, having the internal movable disk, T, bearing the teeth, t't, and adjusted by set screws or their equivalent, substantially as and for the purpose described. 2d, The saw, H, attached to the drum, G, substantially as and for the pur-pose described.

21 post 3d, 4th

pose described. 3d, The bottom plate, N, substantially as described. 4th, The binged block, K, operated by the cam, L, substantially as and for the purpose specified. 5th, The combination and arrangement of the drum, G, the movable disk, T, the hinged block, K with the flexible bag attached to it, and the cam, L, substantially as and for the purpose doscribed. 65,977.—MANUFACTURE OF HARVESTER GUARD FINGERS.— W N. Whitelev. Jr. Jerome Fassler. and O. S. Kelly, Springfield, Ohio.

T the binged block, K with the first ble bag attached to it, and the cam, L, aubatantially as and for the purpose doscribed. 65,977. — MANUFACTURE OF HARVESTER GUARD FINGERS.— W. N. Whiteley, Jr., Jerome Fassler, and O. S. Kelly, Springfield, Ohio. We claim, ist, Guard ingers for harvesting machines made by the process and order of manufacture herein described. 2d, A harvester guard finger composed of a central portion or core of soft from and its entire outer skin or surface of hardened steel, substantially as and for the purpose set forth. 65,978.—NIPPLE SHIELD.—C. H. and J. M. Wilder, New York City. we claim, ist, The arrangement of a screen, a, in combination with the nipple shield, A. substantially as and for the purpose described. 2d, The adjustable side, U, in combination with the screen, a. and nipple shield, A, substantially as and for the purpose described. 450 00 __Cromure DEVER __Hosea Willard. Vergennes, Vt.

65,979.—CLOTHES DRYER.—Hosea Willard, Vergennes, Vt. I caim the securing of the clothes bars, B, in the stirrups, c, of the bracket by means of oblong staples, d, or their equivalents, to a dmit of the longitu dinal adjustment of the bars in the stirrups, substantially as and for the pur pose specified.

pose specified. 65,980.—SPRING HINGE.—Alvah Wiswall, New York City. I claim the spring D. combined with the bar, E, arm, C, provided with a f iction folier, a, and the hinge, all arranged to operate in the manner sub-stantially as show and described. 65,981.—MECHANICAL POWER.—A. B. Wood (assignof to him-self, W. W. Wood, and W. H. Wood), Hamburg, Ark. I claim the Interposition of intermediate mechanical parts or gearing be-tween the point of direct application of power and the point at which an in-crease of power is attained and applied for the purpose of increasing the cas-galcy of power of any given molor, engine, or machine, when the same is effected substantially in the manner and by the means herein described. 65 082.—REUGH — E. I. Worrester (assignor to himself and

eu cotea suostantamy in the manner and by the means herein described. 65,982.—BRUSH.—E. J. Worcester (assignor to himself and Wm. S. Porter), Worcester, Mass. I claim, 1st, The combination of handle, G, and back, B, with a removable metal connection piece or socket such as described, which can be readily ap-plied to either end of the back of the brush without injuring or defacing the same, for the parpore stated. 2d, The combination of the back, B, and handle, C, with the bent metal socket or connection piece, E, and flanges, a a, substantially as and for the purposes set forth.

65,983.-WAGON BRAKE.-G. S. Ziegenfuss, Doylestown, Pa.

U, JOJ, CO. — WAGON DRAKE. — U. S. Alegenfluss, DOylestown, fa. I claim, ist, The brace, F, in combination with the lock bar, E, and bolts, f, or their respective equivalents, substantially as described. 2d, The pole, H, carrying the lever, K, and rack, h, in combination with the dord, K, pulleys, L), and lock bar, E, or their respective equivalents, substantially as described. 3d, The combination of two or more independent brakes applied to a wagon or other venicle, adjusted so as to be brought into play either sepa-rately or together, substantially as described.

-INKING APPARATUS FOR PRINTING PRESSES.-G. W. 65.984. Wood, Richmond, Ind. I claim, first, sector plates, E, E1, E2, adjustably arranged in sets for trans-

Advertisements.

The value of the SCIENTIFIC AMERICAN as an advertising medium cannot be over-estimated. Its circulation is ten times greater than that of any similar journal now published. It goes into all the States and Territories, and is read in all he principal libraries and reading rooms of the world. We invite the attention of those who wish to make their business known to the annexed rates. A business man wants something more than to see his advertisement in a printed news paper. He wants circulation. If it is worth 25 cents per line to advertise in a paper of three thousand circulation, it is worth \$2.50 per line o advertise in one of thirty thousand.

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MINENT CLERGYMEN. - Rev. Drs. Eaton, Sears, Fuller, Westcott, Dowling, Williams, Smith, Tru ubull, Spurgeon, and Revs. Sidney A. Corey, Thos. Armlage, H. M. Gallahar, W. H. Pendleton, etc., with portrails, in the July Pictorial, Double No. Phreno-logical Journal-30 cents, or \$3 a year. 12

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FOR SALE-THREE SECOND-HAND RINTING OFFICES, each with press and material etc. Prices-No. 2, \$27.50; No. 4, \$125; No. 6, \$225. ferring the ink from the fountains and disposing the colors or bands upon the type rollers. 2d, The combination upon one shaft of the sector plates and cam wheels,

2d, The combination upon one shaft of the sector plates and cam wheels, C.C..
3d, The combination of the ink fountain rollers, a corresponding number of sector plates and a type inking or other receiving roller or rollers.
65,985.—WINDING WATCHES.—C. V. Woerd (assignor to the American Watch Company), Waltham, Mass.
1 claim a key hayling a screw formed upon its shank to work into a screw threas formed in the watch pendant, or 1 ua nut inserted in the pendant, substantially as shown and described.
1 also claim torming a key to be directly connected with and disconnected from the pendants, with its means of attachment nuegral with or prodecting from the shank, substantially as shown and described.
Also, making the block or nut, through which the key extends, movable vertically as ado for the purpose substantially as described.
Also, making the block or corrugated wires for hoop skirts, either with or without any kind of coating or covering, as herein described.
REISSUES,

REISSUES.

2,647.-MACHINE FOR MAKING NAILS AND TACKS.-Orin L.

REISSUES, 2,647.—MACHINE FOR MAKING NALLS AND TACKS.—Orin L. Bassett, T. R. Bearse and W.B. Wilber. Taunton, Mass. Patented Oct, 9,1866. 1et, We claim the combination of a carrier or bearer for the tack blank with any one of the cutters, be they more or less in number, used for cutting that tack links, when arrishes they more or less in number, used for cutting and for the purpose specified. 2d. The carrier or bearer for conveying the tack blanks to the die to be head-d, in combination with a forked or other suitable lever, arranged with regard to the said carrier and so as to operate upon it and with the cutter, substantially as and for the purpose described. 3d. The lever, S. plot the purpose described. 3d. The lever, S. plot of the purpose described. 2,650.—REVOLVING FIRE-ARM.—Wm. H. Elliot, Plattsburg, N. Y. Patented May 29, 1860. 1st, I claim a fre-arm with revolving barrels which are bored through and chambered so as to be charged at the breech and sustained by two supports, to wit, one point of support being at the center of the breech plate, or at the same, substantially as set fortb. 2d. The arrangement of support, n, in the rear of all the barrels, and sup-port, n', in front of all the barrels, in combination with a series of revolving barrels which are bored through at their rear of all the barrels, and sup-port, n', in front of all the barrels, in combination with a series of being charged at the bored through at their rear ends, for the purpose of being charged at the bored through at their rear ends, for the purpose of being charged at the breed through at their rear ends, and with a breech plate, substantially as specified. 2d, 51.—FAGOT FOR KALIROAD RAILS.—John Price and Wm. Lewis, Danville, Pa. Patented Oct 28, 1862. We claim a form or formed piece for a fagot to be rolled into a railroad real which are bored through at their rear ends, and with a breech plate, substantially as specified. 2d, 551.—FAGOT FOR KALIROAD RAILS.—John Price and Wm. Lewis, Danville, P as abov 2.652.-

-CLOTHES WRINGER .- Ann Jane Sargeant, adminis-

2,652.—CLOTHES WRINGER.—Ann Jane Sargeant, administrative of the estate of 1. A. Sargeant, decensed, Dayton, Ohio, assignor to Sylvenns Walker, Newark, N.J. Patented July 27, 1858. 1st, I claim the yoke, B. provided with a suitable hitching arm, the said yoke being adapted to be temporarily attached to a wash tub or readily disconnected therefrom as explained, and employed as a bearing for a rotary clamp for wringing clothes. 2d. in the described connection with the yoke, B, the movable clamp, H I J K L, and pawl and dog, P Q, by means of which the said clamp is retained within the yoke, or may be readily removed therefrom at will, to be cleaned or dried.

3d, In the described connection with a rotary clamp for wringing clothes, the hinged and yielding hitching arm, E, for the purposes explained.

the hinged and yielding hitching arm, E, for the purposes explained.
2,653.—CORSET SKIRT SUPPORTER.—J. H. Foy and L. H. Foy, Boston, Mass. assignments of Livinia H. Foy. Parented Sept. 15, 1863. Division 1.
1st, We claim the binding clob, cut bias as described, in combination with the exterior or outer edge of the rim. L, to which the binding clot is applied as specified, whereby all gathering is avoided, while a corded appearance and a case for the hoop, M, are produced, substantially as set forth.
2d, The combination of laced openings, K K, or either of them, with the ford part of the body, I, of a corset open in front, and described.
4th, Forming the curve for the hoop and corded cdges, 0 and P, for the same piece of bias cut cloth, as shown and described.
4th, Forwing the Super Super Super Super Letter.—J. H. Foy and L. H.

Same pacte of mas cut cioth, as shown and described.
2,654.— CORSET SKIRT SUPPORTER.—J. H. Foy and L. H. Foy, Boston, Mass. assignments of signments of Livinia H. Foy. Parented Sept. 15, 1863. Division 2.
1st, We claim protecting and securing the ends of the stiffeners, whale-tones or springs, which are inserted in pock ets in the body of corsets, by by means of case, p. the body, flarge, and spurs of each of which confine the stiffener or spring in position and prevent its wearing through the fabric, substantially as set forth.
2d. For each securing the ends of the stiffeners, whalebones, or springs, which are inserted in pockets in the body of a corset by means of metal caps applied to the outside to prevent the said stiffener from wearing through the fabric, substantially as described.
2d. 655. SERVING MACHUNE LEMES F. A. Glibbe, Midmer, Value 1993.

2,655 .- SEWING MACHINE. - James E. A. Gibbs, Midway, Va.

2,655.—SEWING MACHINE.—James E. A. Gibbs, Midway, Va. Patented Aug. 10, 1858. I claim the general arrangement of a sewing machine comprising the parts whereby the sewing mechanism is brought into operative relation, substan-tially as herein shown and described, that is to say, combining with the vi-brating needle arm a frame shaped substantially like the romau letter G, as herein shown and described and for the purposes set forth. I also claim so constructing and combining or arranging and operating a revolving hook or looper with a reciprocating needle as that one loop shall be taken froon the needle after the former loop shall have been drawn up, on, along, or over the needle during its advance movement, in the manner and for the purpose substantially as described. I also claim the conical sleeve or its equivalent, for holding the spool and for revolving therewith, in combination with the adjustable cones, F and G, or their equivalents, for producing the requisite degree of friction upon the substantially in the manner and for the purposes herein set forth.

2,656.-WEAVING CORDED FABRICS.-Wm. Smith, New York

City. Patened April 5, 1853. Extended seven years. I claim the process herein specified of weaving, consisting in the use of stationary warps in com bination with the moving warps and filling that form a fabric on each side of such stationary warps, substantially sear forth.

DESIGNS.

2,674.—PLOW CLEVIS.—G. P. Darrow (assignor to James L. Haven & Co.), Cincinnati, Ohio.

2,675.-CLOCK CASE.-A. C. Felton, Boston, Mass.

2,676.—COMBINED HAMMER, TACK DRAWER, WRENCH, ETC. -Anthony Iske, Lancaster, Pa. 2,677.-Soldier's MONUMENT. - Dayton Morgan, Chilli-

cothe, Ohio

2,678.—POST-OFFICE BALANCE.—W. W. Reynolds, Brandon, Vt., assignor to the Howe Scale Compray.

2,679.—COUNTER SCALE.—W. W. Reynolds, Brandon, Vt., assignor to the Howe Scale Company.

2,680.—COOK'S STOVE.—Samuel Saylor, Philadelphia, Pa., assignor to Francis Buckwalter & Co., Royer's Ford, Pa. Antedated June 4, 1867.

2,681.-TEA OR COFFEE POT.-Geo. Jones, Saugerties, N. Y.

BRAUN'S BASKET GRATE FURNACE, For Burning Pea and Dust Coal, and other fine material. Illustrated in Scientific American, issue of May 25, 1867.

THE SMOKELESS FURNACE, For Burning Bituminous Coal without smoke. Illustrated in the American Journal of Mining, issue of May 25, 1867.

THE REFLECTING ARCH WARM-AIR FURNACE, For Burning Pea and Nut Coal. Illustrated in the Ameri-can Artizan, issue of Jane 2, 867. The Fatents for the above Furnaces are the property of "The Fuel Saving Furnace Co.", of No. 205 Braaway, New York, who are ready to negotiate with response ble parties, on favorable terms, ior the introduction of said furnaces in the various Stat. Address WILLIAM ENNIS, President, or J. W. COLE, Secretary, No. 205 Broadway, New York.

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Wanted-Cuts, description of machinery, or process best adapted to the above work. Address (sending in du- plicate). 12*1 Care of New York P. O. Box No, 2,517. THE CELEBRATED J. B. BABBITT OR	principal arts on which he can be consolided: Chemicals, Tanning, Inks, Acids, Metailurgy, Varnishes, Alkalles, Galvanoplaster, Starch, Phosphorus, Gliding, Sugar, Bicaching powder, Piating, Petroleums, Matches, Powder, Glues,	First, its economy in the use of ice. The ice being sep- arated from the water, will last much longer than in an ordinary water cooler, and being in the center of the can, all its cooling properties are saved. Second, Milk is kept sweet, unadulterated with water, nearly ice-cold, in the warmest weather, in the dining or living room, convenient of a cess. Buttermilk can be kept as well as sweet milk.	PABRICATION OF VINEGAR. Prof. H. DUSSAUCE, Chemist, is ready to furnish the most recent methods of manufacturing Vinegar by the slow and quick processes, with and without al- cohol, directly from corn. Also, process to manufacture vinegar and agedte acid by distillation of wood. Methods
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THE PHRENOLOGICAL JOURNAL AND LIFE ILLUSTRATED is a monthly magazine devoted to Science, Liferature, and General Intelligence, especially to Ethnology, Phrenology, Physiology, Phys- ognomy, Psychology, Bdncation, and to all those pro- gressive measures calculated to reform, elevate, and im- prove mankind socially, intellectually, and spiritually,	STENCIL CUTTERS' MATERIALS.— SE. H. PAYN, Payn's Block, Church st., Burlington, Vt.	The can was exhibited lastfall at the Incliana State Fair, at Indianapolis, and the lilinois State Fair, at Chicago, in both of which it received the first prenium, and the com- mendation of all that examined it. For a description of this cooler see Scientific American, April 27, 1867, page 276. The understaned, sole owners of the above patent, will	Kiver, at Coloma, Whiteside Co., 111., opposite the city of Sterling. This P were, with its surrounding country and Railroad and River communication, affords one of the best opportunities in the country for manufacturing of all kinds, and overy possible encouragement will be given for its im- provement. Address A. P. SmITH, Sterling, 111. 22 7*
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