FOREIGN SUMMARY-METALS AND MARKETS.

An immense factory for making the Armstrong rifled cannon, at Newcastle-on-Tyne, England, is nearly completed. It is to consist of five distinct shops; the first, 312 feet long and 80 feet wide, is to be devoted to forgging with huge steam hammers. The foundry is already in operation, and the casting of one 70-pounder has been made. It is intended to arm the navy and the forts along the coast with such cannon at an early date.

To those who are skeptical of the immense power of compressed steam to cause great explosions, and who seek for some other agent, like electricity, to do this, the explosion of a blast-furnace, which lately took place at Hanley, will afford some convincing evidence that any compressed gas can produce equally as destructive effects. The engine which supplied this blast-furnace with hot air had stepped, and the valve to shut out the air from passing into the receiver would not act. The foul gas accumulated in the furnace, passed through the pipes into the receiver, and exploded with terrific effect, shattering the engine to pieces, and hurling the fragments to a distance of several hundred yards. The explosion was heard at a distance of three miles, and the loss of property caused by it amounts to £10,000.

From a return made to the House of Commons, it appears that 78,641 tuns of copper were imported into England last year, and 24,787 tuns of British copper exported. About 2,955 tuns of tin and 628 tuns of ore were imported; 2,327 tuns were exported; 23,725 tuns of spelter and zinc imported; 2,012 tuns of carbonate of zinc were imported, and 533 of the oxyd; 3,985 tuns of British zinc were exported ; 14,139 tuns tuns of pig and sheet lead, and 2,346 of ore, were imported; 325 tuns of lead ore, 17,645 tuns of rolled and pig, 1,910 tuns of shot, 490 of litharge, 2,292 red lead, and 2,684 of white lead, were exported.

A bill has been introduced into the British Parliament for reforming the rates of fares at toll-bars, so as to reduce them for steam-carriages on common turnpike-roads. The preamble to the bill states that there is a probability of such carriages coming into more general use.

It is calculated by M. Carmal, a Prussian engineer, that there is as much coal in that kingdom as will suffice

for consumption for nine conturies. The new French floating-batteries are provided with movable platforms, which can be lowered down and taken up easily, to allow riflemen to stand upon them and be protected with movable shields.

The French rifled cannon (30-pounders) are bored with three grooves two inches wide and one-eighth of an inch deep, and make about a quarter of a turn from the breach to the muzzle; the twist is nearly uniform. About 30 of these are now being turned out per day. The bullets are conical, with feathers for the grooves. The range of these guns is five miles, and their accuracy wonderful,

In the new Louvre, Paris, a number of handsome bronze pillars support the lamps for illuminating the Place Napoleon III., and each of these pillars stands near the sidewalk and is furnished with a dolphin's head, out of which pours a stream of water for washing the pave ment.

Two small steam sloops have lately been built in England for the Emperor of Russia.

In regard to the corn market, the Mark Lane Express states that the weather has been very changeable of late, and considerable damage has been done to the crops, and that there has been a slight rise in wheat. The effect of the storms on the potato crop could not yet be estimated, but the probability was a slight injury at most. PRICES OF FORRIGN METALS, JULY 27.

	TOI		0.10	WATER AATT ALL			
	£	8.	d.	1.14	£	8.	đ,
Staff. bar-iron, per tun	8	0	0	Swedish steel, in faggot	21	0	
Common English	7	0	0	Copper in tile,			
Single sheet	9	10	0	British pig lead			0
Double sheet	11	0	0	Tin, block	129	0	. (
Round nail rod	8	0	0	Bar	130	0	(
Square nail rod	9	0	0	Banca			
Hoop iron	9		0	Pla es (per box)	1	19	(
Welsh iron rails			0	Spelter			
Staffordshire pig-iron		15	0	Zinc, in sheets	28	10	(
Sootch pig-iron		10	0	Copper sheathing, per lb	00	1	Č
Swedish iron	18		0	Brass sheathing	00	0	10
Swedish steel	20	10	0				

The prominent change in the price of metals has been a considerable rise in pig-iron.

Rails have been more inquired after, and holders refuse to sell less than £6 and £6 5s. per tun for ordinary. The demand for Sootch pig-iron had increased for shipment; 10,000 tuns were forwarded the preceding week. Tin plates were rising. Lead was in good request, and spelter lively.

New York Markets.

COAL-Foreign caloul, \$9; Anthracite, from \$4.50, \$4.75, to \$5.50 CORDAGE-Manilla, 8%c, a 8%c, per lb. COTTON .- The sales were more favorable this week, still the prices

bile, 10% c; Texas, 11c.; Middling fair from \$13% c. to 14% c. COPPER.-There has been a considerable advance in the rices of

this metal. Lake Superior ingots at 23c. per lb. for cash; sheathing. FLOUR.-There has been a slight upward tendency of prices.

Southern flour has been buoyant, but on the whole, hetween one day and another, the market may be set down as fluctuating. Genesee brands, \$5.25a \$8; Ohio choice, \$5.50 a \$7.75.; common brands from \$4.15 up to \$6. HEMP.-Ame

-American undressed, \$140 a \$150; dressed from \$190 Jute, \$95 a \$90. Italian scarce. Russian clean, \$210 a \$215. Manilla 6%c. a 6%c. per lb.

INDIA-BUBBER - Para, fine, 55c. a 57%c. per lb.; East India, 37c. INDIGO-Bengal, \$1 a \$1.65 per lb.; Manilla, good to prime, 55c. a \$1.10; Guatemala, \$1.05 a \$1.25.

TRON -Anthracite pig, \$23 a \$24 per tun; Scotch, \$24 to \$24.50 Swedish bar, ordinary sizes, §88 a \$90; English refined, \$53 a \$54,50; English common, \$43 a \$45. Russian sheet, first quality, 11%c, a 12c. per lb.; English, single, doubleand treble, 3%c. a 3%c.

LEAD.— Calebas, \$5.80 per 100 lbs.; Gernan and English refined \$5.70; bar, sheet and pipe, from 6 % c. to 7c.

LEATHER -Oak slaughter, light, 35c. a 37c. per lb.: Oak, heavy, 82c a 35c.; Oak, crop, 40c. a 42c.; Hemlock, middle 2516 Hemlock, light, 25c. a 25%c. ; Hemlock, heavy, 23%c. a 24%c; Patnemock, nem, 200 a 2000; hernock, new y, 2000 a 2000; hernock, file, 2000 a 2000; hernock, file, 2000 a 2000; hernock, 5000 a 2000; hernock, 5000 a 2000; hernock, 5000 a 2000; hernock, 2000 a 2000; hernock, 2000

clinch sell inlots, as wanted, at 5c. a 6c.; wr ught foreign, 3c. a 33/c.

American horseshoe, 14%c. Ons.-Linseed, city made, 60c. per gallon; whale, bleached spring, 54c. a 55c; sperm, crude, \$1.20 a \$1.27; sperm, unbleached spring, \$135; lard oil, No 1 winter, 45c, a 90c; extra refined rosin, 30c, a 40c; machinery, 59c. a 100c; camphene, 5c. a 47c; coal, refined, from \$1.12 8 \$1.50

RESH.-Common, \$1.77% per 310 lbs. bbl.; No. 2, &c., \$1.80 a \$2.12%; No. 1, per 280 lbs. bbl., \$2.25 a \$3; wbite, \$3.25 a \$4.50; pale, \$4.50 8 \$6.25.

SPELTER._5%c. per lb.

STEEL-English cast, 14c. a 16c. per lb.; German, 7c. a 10c.; Am-rican spring, 5c. a 5%c.; American blister, 4%c. a 5%c.

TALLOW.-American prime, 10%c, to 11c., p r lb. Trx.-Banca, 34c. a 34%c, ; Straits, 52c. a 33%c, ; plates, \$7.50 a \$9.87% a \$10.08 per box. The holders of this metal seem not to be

TURPENTINE, -Crude, \$2.62% per 280 lbs; spirits, turpentine, 44%c. 45% c. per gallon.

ZINC -Sheets, 7% a 7% per lb. The foregoing rates indicate the state of the New York markets up to Aug. 11.

The following are the prices of printing cloths in Providence, R I. Market firm; goods very scarce: 5,000 pieces, 64 by 64, private brann 11,000 pieces, 65 by 64, 6 ks. 1,000 pieces, 90 by 66, 54 c. 1,000 pieces, 60 by 64, 5 M-16c; 5,006 pieces, 60 by 64, 5%c; 3,000 pieces, 60 by 60, 5%c; 4,000 pieces, 31 by 56, 5%c; 3,000 pieces, 52 by 52, 5c; 500 pieces, 60 by 54, 5 M-16c; 50 by 66, 5%c; 3,000 pieces, 52 by 52, 5c; 3,500 pieces, 48 by 52,4% c.

The Arabia's news is rather more favorable for cotton. The Liverpool markets had been active during the week, and holders had sought for an advance, though without success. Trade at Manchester had also been more animated. The effect of the news here has not yet been tested. The markets have been dull for some time, but, with more favorable advices, would show renewed activity.

THE ERIE RAILROAD .- Judge Mitchell, to whom was entrusted the selection of a receiver for the Erie Railroad, has appointed Mr. Nathaniel Marsh to the position. Mr. Marsh has long been connected with the company as secretary. The appointment appears to give very general satisfaction, every one feeling assured that the affairs of the road will be managed economically and energetically, and above all, honestly. The bonds are for \$150,000, and the sureties are to be Mr. Daniel Drew and Mr. Samuel Marsh. At the last meeting or the Directors a committee was appointed to devise some plan of reorganization. A feasible plan, one that will give satisfaction to all parties interested, is by no means easily arrived at. There are the second mortgage bondholders to be satisfied; back coupons to be settled, troublesome stockholders to be conciliated, and arrearages to employes (say \$250,000) to be paid off. The work of the committee will be anything but pleasant. This process of "wiping out" the stock and some classes of the bonds must fall heavily upon many who in the early ages of railway investment deemed these securities the best in the market. Erie Railroad stock has sold as high as 95 cents on the dollar. We are acquainted with a gentleman in this city who is said to hold \$250,000 of stock and bonds of the unfortunate corporation. There are many other railroads in our country that must sooner or later come to this same "lame and impotent conclusion." The evil day is fast approaching with many of them, and it astonishes us, in view of the almost desperate condition of this class of property, when we hear of parties taking stock in new enterprises of this character.



ISSUED FROM THE UNITED STATES PATENT OFFICE FOR THE WEEK ENDING AUGUST 9, 1859.

[Reported Officially for the SCIENTIFIC AMERI

Pamphlets giving full particulars of the mode of applying for patents, size of model required, and much other information use-ful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SORENTIFIC AMERICAN, New York. 24,978-H. O. Ames, of New Orleans, La., for an Im-

Provement in Apparatus for Heating Evaporating Pans:

I claim the arrangement of the parallel evaporating pipes, D D, with their elbows and collars and screw nozzles, a s, passing through the bottom of the pan, and the parallel external supply and escape pipes, B and C, with the nozzles, d d, and union couplings, 11, for making the connections with the nozzles, a s, substantially as de-scribed.

24,979.—John Andrews, of Clinton, Mass., for an Im-provement in Seeding Machines: I claim thearrangement and combination of the vibrating bars or blocks, g, frame, a, axle, d, cam, c, and seed stild c, nas set forth, whereby the cam which operates the harrow, also moves the seed stild e, and the harrow bars, g, have a horizon al vibration, and also a vertical play with the frame upon the axle, d. [This improved harrow is so constructed that it will, while harrow-ing the ground awy grain at the same time.]

ing the ground, sow grain at the same time.] 24,980.-John Andrews, of Clinton, Mass., for an Im-

24, 900.—Join Andrews, of Chinton, Mass., for an improvement in Seeding Machines: I claim, first, The arrangement and combination of the blocks, b, circular plates, g, teeth, f, levers, u, and seed sliders, p, substantially as shown and described. Second, The arrangement and combina ton of the covering apron, l, bar, d, blocks, b, rod, y, and lever, x, as shown and described.

, but, the state of the same purpose as the preceding, but the end is arrived at by a different mechanical combination. Both are excellent inventions, but require illustrations to fully explain them.]

24,981.—Francis Armstrong, of New Orleans, La., for an Improvement in Brakes for Railroad Cars: I claim making the adjustment from the pull, or the coupling, when actuating on dis inc ly detached parts, namely, the latch, c, and tongues, t, when constructed and operated as or subs antially a de-scribed. I also claim, in combination, the arms, n, bar, r, and levers, m, when arranged and operated substantially as described and for the purpose set forth.

24,982 .- Moses S. Beach, of Brooklyn, N. Y., for an

24,982.—Moses S. Beach, of Brooklyn, N. Y., for an Improvement in Machinery to Feed Sheets of Paper to Printing Presses:
I claim, first, Feeding sheets to the impression cylinders of printing presses by means of revolving arms, or scrapers, a, operating in combination with rollers, b, in the manner substantially as described. Second, Retaining the paper in connection with the impression cylinders of printing, by means of holders, f and g', in the manner substantially as described. Third, Detaching the paper in the impression cylinders by means of definedros, f and g', operating the pression cylinders by means of deficiency, and q, operating substantially as described.

24,983.—G. W. Beard, of Canton, Miss., for an Im-provement in Cotton Cultivators: I claim the peculiar shape given to the scrapers or cutters. J. J. and

I claim the peculiar shape given to the scrapers or cutters, J J, and heir lateral and ver ical adjustment, in combination with the ad-ustable plow beams, C C, when the same are all arranged in the namer and for the purposes set forth. The nature of this invention consists in combining with two right

and left turn-plows having their standards fixed in a laterally adjust: able frame, peculiar shaped garapers or cutters, which are made ad-ustable both laterally and lengtudinally on the moldboards of the plow, for acting on both sides of the ridge at a single operation.]

24,984.—E. P. Beauchamp, of Preston, Ga., for an Improvement in Cotton Seed Planters:
 1 claim the arrangement of the box 1, axie, 2, wheels, 3, side-pieces or frame, 4, bolt, 5, beam, 6, stock 7, follower, 8, furrow opener, 9, and brace, 10, as described, for the purposes set forth.

24,985.-Laurent Beaudreau, of Fond du Lac, Wis., for

24, 505.—Laurent Beaudreau, of Fond du Lac, wis, for an Improved Shingle Machine: I claim the relative arrangement, for united opera ion, of the inter-mediate circular revolving saw B, open reciprocating double car-rages C, cc' tashed clamps G G', bars, H H, rollera m m', springs I f', inclined or curved guiding plates, n n', horizontal roading cra-dice, J J, cams, r r', and S S', shafta, t v', bars, u, and hinged haps or pawla, y 1, 2 v3, all substantially in the manner and for the purpose described.

[This improvement relates to that clas of shingle machines in which the bolt or block lying inclined is fed up to a circular revolving saw, and in which, after the shingle is cut from the block, the latter previous to its next feed is automatically released from the grippers and tipped in a reverse direction and griped to effect a succeeding cut, and so on until the whole bolt is cut up. By this inven ion one saw operates in the above manneron two blocks or bolts.]

24,986.—Philip Bettle, of London, England, for an Improvement in Watch-cases. Patented in England

of the case. Third, The particular form and manner of constructing the pen-lant, and attaching the same to the inner or movement case before described and shown.

24,987.-Wm. Billinghurst, of Rochester, N. Y., for a

Fishing Reel: I claim the combination, of the skeleton ring, R R R, with the biher parts of the reel, the whole being arranged in the manner and forthe purpose substantially as set forth.

24,988 .- Edmond Blanchard, of Greenfield Mills, Md., for an Improvement in Composts:

I claim, as a new article of manufacture, a fartilizing compost, imposed of time, chloride of sodium, wood ashes, charocal, wheat

bran, chimney soot and gypstm, combined in the proportious and manner described.

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[By a judicious mixture of lime, common salt, wood ashes, charcoal, wheat bran, chimney soot and plaster (gypsum) a very superior com-post is obtained, onethat possesses all the essential properties that the soil requires for the raising of wheat and other cerials, and although its cost is but one-fourth of guano, by experiment it has been proved that it will produce a heavier crop.]

24,989.—E. Burroughs, of Rochester, N. Y., for an Improvement in Machin s for Cutting Paper:

claim, fir t, The employment or use of the reciprocating and os ating knife, G, when arranged to operate, substantially as and for

I claim, fir t, The employment of use of the reciprocentially as and for cillating knife, G, when arranged to operate, substantially as and for the purpose set forth. Second, The knife, G, in connection with the cone of pulleys, T, at-tached to the shaft, S, the hollow shafts, $y \ge with their respective$ gear ng, at h't, and ar'i'j' and the shaft. K, with its resurtiar, v w,and the racks, I, attached to the inferbar, F, by the rold, H II, thewhole being anranged to operate substantially as set forth.Third, The arrangent of the shaft U, with spring, g', the arm, $<math>\xi$ cone of pulleys, T, lowers, VW rack K, substantially as shown, for the purpose of automatically changing the movement of the knife from a descending to an upward movement. Fourth, The clamp formed of the vertical and horizontal plates, p q, when arranged as shown, so as to be adjusted by the screw, s, and pinfon, or worm wheel, r, pinfong, u and racks, F F, the latter serv-ing in the expacity of both racks and guides, substantially as and for the gurpose specified. Fifth, Attaching to the **shaft**, F, an index, b, arranged to move stantially as shown, for the purpose of enabling the operator to ac-curately adjust the paper beneat the knife.

24,990.-J. T. Campbell, of Rockville, Ind., for an Improved Adding Machine:

proven Auding Machine: I claim the arrangement of a series of wheels provided with ten cogs or teeth, and carrying the ten numeric figures on their outward faces, in combination with the stationary plate containing like nu-meric figures arranged on the dircla, surrounding each of the wheels in the series, substantially as described. And in combination with the parts above claimed, arranged as de-scribed, I claim the stopb rs, X Y, and spring slides, G G, and os-cillating arms or pawis, F F, with the cam, e.e, the whole being con-structe and arranged for joint operation, substantially as set forth.

24,991.-Walter Clark, of Palmyra, Ill., for Improve ment in Seed Planters:

I claim the arrangement of the reciprocating agitating rod, r, v passing through the adjustable seed discharge opening in the si-the hopper, with the frame, F, wheels, W, pins, P, teeth, a b c, per, H, and adjustable slide, S, the whole being constructed as for the purpose set forth. hop-and

24,992.—W. Cogswell and C. A. Mathewson, of Ottawa, Ill., for an Improvement in Corn Harvesters:

We claim the circular cutter, F, and the reciprocating sickle, r with its stationary toothed plate, s, in connection with movable bed or magers, I, the whole being placed on a mounted frame, and ar range for joint operation substantially scand for the purpose set forth.

[In this machinea rotary and reciprocating cutter and a movable bed are employed; they are mounted on a frame, so that as the ma chinels drawnalong, the standing cane or corn will be cut and deposit edin proper sized gavels on the earth.]

24,993 .- J. P. Coonley, of Farmington, Mich., for an

Improvement in Corn Planters: I claim the arrangement of seeding-roller, H, gear wheels, d d, slide plate, I, lever, c, as justable teeth, b, coverers, F, and tracking gage, M, constructed and operated substantially as and forthe pur-poses set forth.

24,994.-B. T. Currier, of Bath, Maine, for an Improve ment in Corn Harvesters:

I claim the arrangement and combination of the scythe-shaped cutters, B' B', rods, D \mathbf{D} , cranks, E E', adjustable frame, J, and standards, A, as and for the purposes shown and described.

[Peculiar shaped cutters which perform the twofold purpose of gathering and cutting the stalk, and holding it firmly between the knives while in the act of cutting are arranged in front of the machine, and constitute the invention.]

24,995.—Edward Davidson, of Batesville, Ark., for an Improvement in Hoop Fastenings for Cotton Bales. I claim forming the socket of two parts to admit of the same being pened to receive the bent or doubled and lapped ends of the bale oop, and closed to secure the ends of the hoop together, substantially s and for the purpose s ecified.

[An engraving and description of this invention will be found on

anotherpage.] 24,996.-Alva G. De Wolfe, of Seymour, Conn., for an

Improvement in Vulcanized Gums: I claimthe use of pulverized, vulcanized rubber, gutta-percha, of other vulcanized gum, in the manner and for the purpose specified.

24,997.—C. S. Dickinson, of Cleveland, Ohio, for an Improved Centrifugal Gun:

Improved Centringal Gun: I claim, first, The employment of lever, G. provided with a collar which surrounds shaft, B. pivoted or hinged at x, and provided with a pin, or rod, J, when the same is used, substantially as and for the purpose specified. Second, Operating lever, C, in one direction, by means of rod, D, and its connections through the center of the shaft, B, and in the other direction by means of spring, F, for the purpose of discharging the balls from the barrel at the proper time, substantially as set forth.

24,998.—Rudolph Dirks, of Philadelphia, Pa., for an Improvement in Seats for Sleeping Cars:

Improvement in Seats for Sleeping Cars: I claim, first, The cushioned platform, E, and the frame, F, with its detachable cushios, f, and movable less, h, in combination with the permanent partitions, D D, the said platform and frame being hinged together and oblury visco arranged as set forth. Second, The boards, G, and K, adapted to and sliding in or against the partitions, D D, and arranged as specified, so as to form the foot and head-boards for the couches. Third, The frame, H, as hinged to the side of the car and the frame I, so hinged to the frame, H, that both frames may assume the po-sitions illustrated in Figs, I and 2, in combination with the partitions, D D, and their sliding frames, G, Fout, Forming the upper couch of the board, L, hinged to the side of the car, and one or more boards, M, hinged is the based, L, when arranged as set forth, in combination with the permanent partitions, D D.

24,999.—Zachariah Feagan, of Palmyra, Mö., for an Improvement in Hemp-brakes:

I claim the arrangement and combination of the stationary bars, L L, finger guards, O O, vibrating spring levers, E E, and cams, D D, the whole being constructed and operated substantially in the man-ner and for the purpose set forth.

25,000.—Andrew Dougherty, of Brooklyn, N. Y., for an Improvement in Printing-presses:

I claim the combination of the inking apparatus at the side of the lain cylinder of a press, with a carriage that can be moved from and wards the main cylinder, and with a stop that controls the position f the carriage; the combination, as a whole, operating substantially set forth. of the

25,001.—Albert Eames, of Bridgeport, Conn., for an Improved Die for Swaging Bolt-heads: I claim making dies for swaging bolt-headsand other articles in two or more parts, the parts forming the bottom being fitted to and in the part forming the periphery, substantially as desc ibed, and the whole fitted to and secured within the drop, or equivalent therefor, as set

And I also claim, in comb nation with the die, the bottom of which is ade equivite from and inserted in the part forming the periphery, grooving the periphery of the part forming the bottom for the escape of air, substantially as described.

25,002.-J. P. Emswiler, of Knight's Tower, Ind., for an Improvement in Sewing Machines:

I claim the combination of the slide, M, or its equivalent, arrange substantially as described, with the feeding mechanism, for the pur-pose of adjusting the bed to the feeding mechanism for materials of various thicknesses, without changing the position of the feeding

mechanism. And I also claim, in combination with the bobbin, arranged as de-scribed, to vibrate on the shuttle, the longitudinal arched pressure spring, arranged substantially as described for the purpose set forth

25,003.-Moses G. Farmer, of Salem, Mass., for an Improvement in Windlasses:

Improvement in Windlasses: I claim the combination of the roller, A, the rat het wheel, B, the retaining ratchet, F, and the actuating ratchet, D, with the lever, C, and togele-loint, E, so arranged that the thrusting power of the tog-le-loint, E, shall be whelly exhausted, when the lever, C, is fully depressed, and the joint, E, brought into a straight line which inter-sects the axis, I, and the point of the actuating ratchet which is in contact with a tooth of the wheel, B. I claim the means described of permitting the backward motion of the roller, A, viz, by causing the motion of the lever, C, to release, alternately, the actuating and retaining ratchet invusit the agency of such means as the springs, X, the projecting arms, L M, and the pro-per position of the collar, J, substantially as described,

25,004.-C. N. Farr, of Philadelphia, Pa., for an Improvement in Sewing Machines:

[claim the arrangement of the fulcrum slide, r, stops, q and s, and you gbar, p, for regulating and adjusting the motions of the loo er, set forth. And in combination with said looping-bar, adjusted as described, I claim the rocking lever, o, fitting and acting as specified.

25,005.-Benaiah Fitts, of Worcester, Mass., for an Im-

provement in Governer Valves: Iclaim the manner of mounting the valve, substantially as de-scribed, that is to say, resting or supporting the valve, as shown at M, and retaining is into its scat, as shown at M, for the purposes set forth.

25,006.—Perley F. Freeland, of Newark, Ill. (assignor /to V. R. David, of Morris, Ill.), for an Improve-

ment in Cultivators: claim the arrangement of the tongue, A, curved or segurent bar, beams, E E, with screw-rod, c, and pendants, d', and shares, F, at-hed, substantially as and for the purples set forth.

[The object of this invention is to obtain a cultivator which may be made to answer equally as well for eradicating weeds and pulverizing the soil, and for hilling or earthing-up plants. In short, an imple-ment that may be used for general work in thecultivation of what are rally termed "hoed crops," or such as are grown in hills or irills, 1

25,007.-Edwin Gomez, of New York City, for an Apparatus for Folding or Wrapping Papers:

I claim the folders, f f, formed with the lips, 44, and volutes, 33, in combination with the intermediate twisters, i 1, in the manner and for the purposes specified,

25,008.—Geo. P. Gordon and F. O. Degener, of New York City, for an Improvement in Printing presses:

York City, for an Improvement in Printing-presses; We claim, first, Combining with the tympan-frame the sheet-hold-ing and relieving-nipper or grippers, for the purpose of holding he sheet, and for relieving the sheet from the type. Second, We claim the combination of a cylinder, or segment of a cylinder, with its wheel-beauxy, the impression cylinder, roller-pen-dants, and the racks of gearing. Third, We claim the first indexerroller, or its equivalent, in combi-nation with the tympan-frame, for the purpose of closing the tympan and properly laying the sheet upon the form in advance of the pas-sage of the impression cylinder or its equivalent. Furth, We claim operating the sheet bolding and relieving-grip-pers by or through the motion of the tympan. Fifth, We claim attaching a tympan-frame to an adjustable bed in such a manner that they, at all times, shall retain their relative posi-tions towards each other, in the manner described. Sixth, We claim anging, finging or attaching the inking-appar-atus to the frame of the press, or to the press, in such a manner that timay be turned, swung, or set adde, so as to allow the workman to get at the form to make any necessary alterations, or to make the form ready, or for the purpose of using the bed as a composing stone. 25,009.—Ralph Greenwood. of Altoona. Pa for en

25,009.—Ralph Greenwood, of Altoona, Pa., for an Improvement in Fire-boxes of Locomotive-engines;

I claim the midfaulter, G, when used in connection with a gas chamber, D, and fire-box, A, provided w th openings, e f g h, the parts being arranged relatively with each other to operate substan-tially as and for the purpose set forth. I further claim the cylinders, E F, when applied to the ori ces of the gas chamber and fire-box, and connected by a lever, G, to operate simultaneously as and for the pur ose set forth.

25,010.-Leonard B. Griswold, of Pennfield, N. Y., for an Improvement in Potato-diggers:

I claim the employment of a rotating head or disk, having teeth or spurs arranged around an upright shaft in a direction oblique to the axis thereof, in combination with the truck, B, and driving-wheels, G F, or their equivalents, for giving the required motion, substan-tially as and for the purpose set forth.

25,011.-W. D. Harrah and B. S. Baldwin, of Daven port, Iowa, for an Improvement in Seed-planters:

port, Iowa, for an Improvement in Seed-planters: We claim, first, The combination and arrangement of the peon-liarly-constructed kopper, F ff' f'', regulating-plate, G, sliding frame, H, slides, h'', pitmure, b, eigrd leading-wheels. B, hinged seed-tubes, I, roover i covering-wheels, C, Rot-lever, J, caster-wheel, D, and hand-lever, K, all substantially as and for the purpose described. Second, In combination with the hopper, F, the arrangement of the foot-lever, J, and hinged bar, i, when the latter is so hinged as to throw the pd nts of the seed-tube forward in their adjustment, or when the foot-lever is depressed, substantially as and for the purpose described.

012.—Robert S. Harris, of Galèna, Ill., for an Im-proved Water-gage for Steam-boilers: 25.012 -

I claim the within-specified manner of constructing and attaching the float stem to the boiler, whereby it is made to answer for carrying the float and as an index for indicating the hight of the water in the boiler, and, if desirable, as a trip for opening a valve for an alarm whistle, all in the manner and for the purpose described. 25,027,-Adam Miller, of Mt. Pleasant, Iowa, for an

20,021,—Auam Miller, of Mit. Pleasant, Iowa, for an Improvement in Underground Draining Machine: I claim the combination and arrangement of the mole with the drain-protectors, as described, for the purpose of expeditiously and economically giving protection to the upper part of the ditch, and of disenzaging the protectors from the mole plow with facility after they are laid.

winstle, all in the mainler and for the purpose described.
25,013.—James Harrison, Jr., of New York City, for an Improvement in Sewing-machines:
I claim, first, The switching-lever, n. constructed and operated as set forth, for directing the thread to the beard or barb of the needle, and preventing the escape of the thread therefrom.
Second, I claim controlling the feed and the stitch by the raising or lowering of the needle as set forth.
Third, I claim rotating the needle, and Carrying with it the thread, thus forming a twisted threaded-loop, as described.

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25,014.—George A. Hay, of Berea, Ohio, for an Im-proved Machine for Cutting-out Wooden-ware: I ckin the rock-shaft, K. in combination with the hoop-saw, H, econstructed and arranged as described, and operated by means of the pinion, L, in the manner and for the purpose substantially as set forth.

James Haynes, of Hollis, Maine, for an Im-25.015 Wood Saw-frame:

W 000L SAW-ITAIDE: I claim the inclined plane, ratchet and the nipper or strainer, ap-lied to the saw and frame, as described and represented in the draw-ng accompanying these specifications.

10 accompanying these spectrations.
25,016.—Stanislas Hoga, Wm. P. Piggott and Septimus Beardmore, of Middlesex county, England, for an Improved Mode of Generating and Applying Electric Currents in Telegraphing:
We claim the an liceation to telegraphic instruments of currents of electricity, produced from metals or substances arranged in the ear h, or in natural bodies of water, in the manner and for the prop rises and relations described.

and relations described.
25,017.—Robert Hooper, of Baltimore, Md., for an Improvement in Steam-boilers:
I claim, first, Contracting that part of the boiler immediately above the fire-fines, in combination with the widening and extending of that part which is beyond or in the rear, and above the end of the fire-box, substantially as and for the purposes set forth.
Second, Forming a water-circulating passage from the fire-box, by means of a large space existing between the fire-box and the particular passage, substantially as and for the said water-circulating passage, substantially as and for the said water-circulating between the fire-box and the particle walls of the said water-circulating passage, substantially as and for the purposes set forth.
25, 018. Anthony, Iche, of Langestor, and Lack P.

25,018.—Anthony Iske, of Lancaster, and Jacob B. Erb, of Conestoga township, Pa., for an Improved Approach-opening Gate:
We claim the arrangement of the platforms, G, uprights, H, to the lever. J, with the connecting. rod, K, attached to the arm, O, on the slat, Q; the g ve, b, on the liable of the post, B, for operating a schown, when combined, in the manner set forth, or gubstantially the some

25,019.—John W. Kingman, of Dover, N. H., for an Improvement in Machines for Milking Cows:

Inprovement in Machines for Milking Cows: I claim the teat-cups or tubes, partially covered at their upper ends, with an elastic flange, subst nitally as described, which will yield for the insertion of the teat, and gripe it so as to hold the cup u on the teat during the process of milking, and form a packing between the edge of the cup and the teat, which will be pressud against the teat by the external afr when the internal air is exhaustral; and, in combina-tion with the device above-claimed, I claim a vessel provided with an airranged as to exhaust the air and draw the milk from the cow or other animal, substantially in the manner described.

25,020.—Ebenezer A. Lester, of Boston, Mass., for an Improvement in Railroad Car-wheels: I claim attaching the wheel, D, to its axle, by means of the auxiliary hub, E, with its recess, f, and groove, e, and the segmental ring, H, or its e quivalent, connected with the wheel in the manner substantially as set forth.

as serious.
25,021.—Theodore Lipshuts and Daniel C. Jones, of Baliston Spa, N. Y., for a Self-acting Battery for Soaring Crows, &c.:
We claim the rising and failing box, K, arranged with the slide, g, and apertures, p, and operating in combination with the dog, J, and pulley, E, substantially in the manner and for the purposes specified.

(The object of this invention is to arrange a battery with a number [The ob ect of the sinvention is to arrange a battery with a number of chambers, in connection with a gun-barrel, in such a manner that its chambers, one after another, are made to go off at regular inter-vals without the sid of foat, and, by these moorts, frighten away in-jurious animals, and the invention consists in arranging a rising and falling box in such relation to a revolving battery, that when the box is filled with sand it sinks down and causes a hammer to discharge one of the chambers of the battery and the box is so arranged that it one of the chambers of the battery, and the box is so arranged that it discharges the sand when it reaches the ground, and it is raised by veights ready for a new charge.]

25,022.—Samuel W. Lowe, of Philadelphia, Pa., for an Improvement in Machines for Milking Cows: I claim the cup. A, with the perforated diapturant, B, when con-structed as described, to receive all the teats of the cow's hag, by having an opening in the diapturant for each teat and combined with an exhausting apparatus, constructed substantially as described and for the purpose set forth.

25,023.-Moses Marshall, of Lowell, Mass., for an Improved Device for Making Electro-magnetic Cur-rents Constant or Intermittent:

I claim the spring, g, so constructed and arranged as to be insulated from or connected to the two ends of the helical wires by springs, l and k, or otherwise, essentially in the manner and for the purposes fully set forth.

25,024.—W. McElwee, of Shelbyville, Ind., for an Im-proved Kitchen Safe: I claim the combination and arrangement of hollow posts, B, with water- ups, D, a 'anged in the manner and for the purpose specified.

[The body of this safe is mounted on hollow posts, extending from he floor t the top of the safe, and they are provided with water cups the hotion of each leg, which are connected by perforations with the compartments of the safe, so that cool ir is always supplied to the safe without making perforations in its sides.]

25,025.—E. McKenney, of Montgomery, Ohio, for an Improvement in Seeding-machines: I claim the arrangement and combination of the distributing disks, L, levers, N, check-valves, q, and buttons, u, to operate together with the hammer, o, and with the beli, M, substantially as and for the pur-poses set forth.

With this machine the corn or seed can be deposited in hills at difthere it distances apart, and the time when the check-valve opens, an when the corn is deposited in the ground, is indicated by a hamme striking on a bell, so that the operator is enabled to plant his seed in checkrows to enable it to be plowed both ways, and there are other contrivances to render it an efficient and good seeding- achine.] 25,026.-J. B. McMillan, of Tipton, Ind., for an Im-

provement in Seed-planters: I claim the planting and covering apparatus, when constructed and a ranged in the manner and for the purposes set forth.

25,028.-Alex. Miller, of Newbern, N. C., or an Improvement in Drivers for Millstones: I elaim the employment or use of the friction rollers, B B, applied to the driver, A, in connection with the plates, C C, or their equiva lents, fitted in the recesses adjoining the eye of the stone or runne for the purpose of forming proper bearing surfaces for the rollers the while being arranged substantially as and for the purposes forth.

[The object of this invention is to reduce the friction attending the rotating of the stone, by the driver, when the former is u from its unbalanced state or from an untrue position of the spindle, The invention consists in having a friction roller attached to each end of the driver on opposite sides, and having steel plates fitted in the eye of the stone to form durable and plane bearing surfaces for the rollers.]

25,029.—Saml. C. Moore, of Providence, R. I., for an Improvement in Hoops for Skeleton Skirts: I claim the corrugated sheet metal hoop for ladies' skirts described, as a new article of manufacture.

25.030.—Oliver P. Moran, of Havnesville, Mo., for an Improved Device for holding together the Panels or

Portable Fences: I claim the arrangement of the notched projections or projecting pieces of the upper and lower rails in combination with the right-an-gled notches, ii, in the end battens, substantially in the manner and for the purpose specified.

10 the purpose specification of Womelsdorf, Pa., for an Improvement in Cultivators:
1 claim the arrangement of the axles, P3, wheels, B, stretch-bars, L, levers, H I and L2, frames, M, wheel, C, ratchet bar J, and cultivator bar, P; the whole being constructed as described and set forth

25,032.—A. A. Mess, of Philadelphia, Pa., for an Im-provement in Hydro-carbon Vapor Apparatus: I claim the steam generator, A, and dryer, E, in combination with a distinct hydro-carbon vaporizer, C, the same being also connected with the retort, D, and the whole arranged together so as to generate the steam and hydro-carbon vapor separately, and for their subse-quently mingling and combination, substantially in the manner and for the purpose described.

25,033.-Matthew Mitchell, of Alton, Ill., for an Im-

25,033.—Matthew Milchen, of Zhon, Mil, io, an in-provement in Corn-planters: I claim the arrangement of the frame, B, seats, E and G, hoppers H, shoes, S, and cutters, N, with the device for operating them, in combination with the frame, K, hung on the azle, D, and with the sildes operated as described—the whole being constructed and arrange ed_substantially in the manner and for the purposes set forth.

[This planter is designed to plant seed in sod ground by cutting hrough and depositing the seed underneath the sod, or it may be apthr plied to planting in old and mellow ground.]

25,034.-Don J. Mozart, of Yellow Springs, Obio, for an Improved Arrangement of Dead-beat Escape-

ment: I claim the improved arrangement of the "fouble "scapers," G G, it the stars scape-reft, E, or its equivalent, substantially as and or the purpose specified.

25,035.-Edward Norton, of Boston, Mass., or an Im-

provement in Skates: I claim the metal straps, Dand E, and the slotted plates, J, and crew, G, for tightening the skate to the foot, substantially as shown.

[This invention consists in making the sole-plate, or what is mor

generally called the stock of the sk te, of metal, and in two detached parts, and in proting them respectively to the beel and front parts of the runner, and in connection with a skate thus made, in making the heel and toe straps for securing the skate to the foot of sheet metal, which are secured tightly to the foot by a peculiar fastening.]

25,036 .- Marcus P. Norton, of Troy, N. Y., for an Im-

25,050.—Marcus F. Norton, of Frey, N. 1., for an inter-provement in Postmarking Stamps: I claim the blotter, J, connected or attached to the main part of any "post-office post-marking stamp," for the purpose of cutting and inking, blotting and efficing, so as to successfully cancel the frank or postage stamp of any letter or any package, at the same time and operation of marking upon such letter or package the name of any post-office, the year, the month and the day of the month, substan-tially as and for the purpose set forth.

25,037 .- Leonard Packard, of Galesburg, Ill., for an Improvement in Cultivators:

I claim the arrangement of the beams, P, the irons, Z Z', and the ojection, X, on the ends of the beams, the adjustable arms, S, races, W, blades, T, lifting rods, I, adjusting bar, B, levers, 5, fulum, 6, and hinged pole, L, as described, for the purposes set forth. 25,038.-J. J. Parker, of Marietta, Ohio, for an Im-

proved Egg-beater, or Churn:

I claim the tube, A, in combination with the band, C, and grated ttom, M-all constructed, arranged and operating substantially in the manner described.

25,039.-Horace Parkhurst, of De Kalb, Ill., for an Im-

proved Clothes-frame: I claim the combination and arrangement of the standards, A, the rails, B, the h ad-blocks, C, the c asps. E, the cords, F, substantially as and for the purpose specified.

25,040.—Dubois D. Parmelee, of New York City, as-signor to J. A. Greene, of Beverly, Mass., for an Improvement in Mode of Uniting Solid Substances:

Improvement in Mode of Uniting Solid Substances: I claim the method and process describe of uniting various sub-stances of bodies of the same or different character and properties, by the interposition between the surfaces of said substances or bodies to be united, of one or more sheets or layers of indla-rubber and gut-ta-percha, seperately, or when combined with the substances, such sheets or layers having previously been treated in the makner de-scribed, to produce the change specified; wherebr, on completion of said change, a water-proof cement is obtained, while, while it pos-sesses therequisiter glidity and coherence to keep the bodies firmly and strongly united, possesses a sufficient degree of elasticity to com-pensate for the expansion or contraction of the fibers of the bodies for the purposes substantially as set forth.

25,041.-Lawson G. Peel, of Webster county, Ga., for an Improvement in Corn-planters:

I c aim the arrangement of the beam, F. stock. E. frame, D. a, hopper, A. wheel, B. and cylinder, C, as described, for the pure set forth.

25,042 -Colwell P. Pool, of New Market, Ala., for an Improvement in Filing Cotton-gin Saws:

I claim the arrangement of the file-case, H, with the file-holder, and sleeves, b, to encode in combination with the bar, C, and wi the slide, E, and ridge, e', substantially in the manner and for t purpose specifie.

A series of files, in suitable sockets, are arranged in such a man ner that a reciprocating as well as an oscillating m to the files, and that when the same are brought in the proper rela to not the saws of a gn cylinder, the tesh of the several saws may be scored by one and the same operation, and also whetted and round-ed, so that it is not necessary to go through the same operation for every single saw.

25,043.-Wm, F. Pratt, of Bristol, Pa., for an Improvement in Sewing Machines:
I claim the construction of the thread-case with an angular projection, j, extending across its center, and the construction of the slide, therewith in the manner substantially as specified, not only to prevent the twining of the thread-case, but to cneck and control the several parts. A B C D E F G H tially as and to case, thereby avoiding the useof separate turned-controlling apparatus.
25,057.-Stephen Stewart, of Philadelphia, Pa., for a Burglars' Alarm:
1 claim the combination of the several parts, A B C D E F G H tially as and to for the purposes set forth.
25,058.-Wm. A. Suddith and John F. Suddith, of Charlestown, Va., for an Improved Washing Marate Several controlling apparatus.
26,044.-Content A, H. Browm, C, H. Borton, C, M. Suddith and projecting as set forth in drawing at the several parts of cylinder as set forth in drawing at the several parts.

25,044.—S. M. Quimby, A. H. Brown, G. H. Renton and James Criswell, of Newark, N. J., for an Im-proved Furnace for Making Iron direct from the Ore:

We claim the arch, K, the hopper-damper, E, the rods or bars, 0.0 o, arra ged and operated substantially as described in the

o o o, arta ged and operation substantial drawings. We also claim the dampers at the bottom of the tubes for discharg-ing one or more tubes at the same time into one box orhopper, as

25,045.-John B. Read, of Cold Spring, N. Y., for an Improvement in Apparatus for Tanning:

Improvement in Apparatus for Tanning: I claim an improved apparatus for tanning and other purposes; said apparatus consisting of one or anumber of smooth porous or perfo-rated surfaces of wood, or other fixed material, placed singly or in succession in open or closed vats or vessels, or arranged in pairs so as to orm closed hollow cases, upon which sking, or other substances to be operated upon are to be smoothly stretched, and then the tannin or other fluids forced through them by hydrostatic or other pressure into the interior, whence means of escape are provided, as described. I claim also the use of tarpanlin sheet metal, or other wate-proof cases not overhaid by the skins, &c., that the fluids used may be af-forded no passage except by percolating through the skins, &c.

25,046.—Chas. A. Robbe, of Angusta, Ga., for an Im-provement in Gas Retorts: I claim a gas-generating chamber of a retort, made in two parts, when the said parts are constructed so as to lock together and form a tight joint by the sample act of sliding one portion into gear with the other, substantially as set forth.

25,047.-Theodore B. Rogers, of Wethersfield, Conn.,

for an Improvement in Seed-planters: I claim the arrangement of stides, I 1' 1", lever, L, former, G, floats, H, adjustable pins, E, and markers, R, as described, for the set forth. purpó

25,048.—James Rue, of Englishtown, N. J., for an Im-provement in Cultivators: I chim the arrangement of the loose dra? pole, G, bracket, f, cul-tivator frame, B H, hinged rods, a b', devices, i j k, bracket, d, and pin, e, all arranged and operating substantial yin the manner and for the purposes described.

[This cultivator belongs to that class of plows which are in forhilling and weeding corn, potatoes, tobacco, cotton, and all other sorts of root crops, and which are made to straddle the rows or hills, so that the plants pass between the shares and the draft animals, and under the draft pole, which is raised high enough to, pass over the tops of the growing crops, and which is attached to a cross-bar that is attached to the necks of the draft animals. The invention consists in attaching the draft pole to the beams by means of hinged rods, which connect with the pole at a point above the pin to which the draft animals are hitched, so that any strain exerted on that pin has a tendency to depress the rear end of the draft pole and to rules its front end, whereby the plow-shows are kost form to the ground with-out any estima excition of either driver or animals, and as the pole is connected by hinged rods without any rigid fastening, the driver is habled to accommodate the action of the shares to the inequalities of the ground, and at the same time the front ends of the shares can

be raised and the cultivator drawn from place to place.] 25,049.—Ezra D. Sargent, of Indianapolis, Ind., for an Improvement in Scats and Couches for Railroad

Cars:

Cars: I claim, first, The side lounge, G, or nurse couch, constructed and arranged as and for the purpose set forth. And, Second, Its combination with the backs, a L M, seats, F G H J, partitions, P, Deschetz, Z, and stops, V; all arranged, constructed and operated substantially as set forth in the specification.

25,050.—John Shaefer, of Lancaster, Pa., for an Improvement in Grinding-cylinders for Apple Mills: I claim the tangential, curved, longitudinal, toothed cylinders, A, as set forth and described.

25,051.—John P. Sherwood, of Fort Edward, N. Y., for an Improvement in Nail Plate-feeders:

for an improvement in Kain rate-reducts. I claim the employment of the stationary inclined plane, N, and the tumbler, O, having an inclined face, k, in combination with the arms, m w, of the hollow shaft, P, of the platcholder, and with the feed-screw and nut, and the driving cam, D, or their equivalent—the whole operating together substantially as described to produce the several movements specified.

25,052.—Evan Skelly, of Plaquemine, La., for an Improvement in Apparatus for Heating Evaporating Pans:

I claim the employment, in an evaporating pan, of a conical s heater, with a central opening and a passage around its exterior under its bettom, substantially as described,

25,053.-N. B. Slayton, of Madison, Ind., for an Im-

provement in Securing Artificial Teeth: I claim, first, Securing artificial teeth on plates of gold or silver, by means of an amalgam of gold or silver, or both, combined with mercury, substantially as described, for the purposes set forth. Second, I claim forming, by means of said amalgam, an outer flange or rim, a, covering and supporting the base of the teeth, sub-stantially as and for the purpose set forth.

25,054.-Solomon P. Smith, of Crescent, N. Y., for an

Improvement in Straw-cutters: claim the arrangement of a crank shaft, M, pitman, N, knee-nted lever, F, knife, (; with a straw box, B, and cutterblock, D, conjoint use, as ega edited and shown by the drawings.

25,055.—Abel Spencer, Jr., of Southport, N. Y., for an Improved Mortising Machine: I claim the frame made with cross-heads connected together by means of the jointed rods, JJ, and having those rods jointed at or nearly in line with the cutting edge of the citisel, and the mode of appying or using it, or any other manner substantial sites same.

25,056 .- La Fayette Stevens, of Elmira, N. Y., for an

25,056.—La Fayette Stevens, of Elmira, N. Y., for an Improved Machine for Tenoning Blind Slats: I claim constructing the cutter-head with grooved checke, r. (clamp-ing nuts, k, and bearins studs, j, whereby the plane cutter knives, g, are held in an oblique position with the plane of rotation with the cutting edge of the overating one, terminating in conjunction with that of the hollow hub, h, and shoulder, e; arranged and operating substantially as and for the purposes set forth. I also claim the combination and arrangement of the rest, K, with stationary and movable upper and lower jews, on, and gage, q, sub-stantially in the manner and for the purpose describe. I further claim the arrangement of the rise, on, as operated by in-clined alland, u, and laver, v, to cause the cutring et , etop al-centately at the fixed stop-gages, s and w, substantially as described.

we claim the hinged part of cylinder as set forth in drawing at Fig. 7.

5,059.—Geo. S. Tapley, of Bristol, Conn., for an Im-provement in Sewing Machines: I claim the movable cup, s, and its appendages, for griping and au-omatically releasing the shuttle at intervals substantially as spe-lifed. 25,059.-

I also claim the construction and arrangement of the feed appara-tus as and for the purpose set forth,

25,060.—Horace Trumball, of Jersey City, N. J., for an Improvement in Machines for Washing and Sep-

arating Ores after being Pulverized: I claim the application to a rotary buddle or table such as escribed of vibrating brushes, when the same are arranged and operated es-entially as specified.

[This Invention relates to an improvement in washing and separat ing pulverized ores and other substances, and for treating ores of zinc, or any pulverized ores or minerals, where machinery known as suitable frames, to all of which an oscillating motion is given, brushes, so pivoted to the frames that they will press upon the surface of the table or buddle with just sufficient gravity to keep the ore in constant agitation without scraping or wiping it into heaps and retarding its passage over the tables, as is the case with the revolving or fi ed brushes; and also in giving to these brushes a greater speed than that of the buddle, which is to be determined by the consistency or quality of theores to be subjected to the separating process.]

25,061.-Otis Tufts, of Boston, Mass., for an Improvement in Elevators or Hoisting Apparatus for Ho-

ment in Elevators or Hoisting Apparatus for Hotels, &c.:
I claim, first, For the purposes of elevating, the combination of the screw and the pussenger car or platform.
Second, I claim the construction of a screw for elevating having stays or bearers at intervals, attached to the wall of a building or any fixed adjacent structere.
Third, I claim the construction of a nut with a slot or opening in the back or side to enable it to pass by the bearings or stays before referred to and asjdescribed.
Fourth, I claim constructing a nut or carriage with whoels or rollers around the descending motion of elevators or hoisting apparatus by means of fluid retarders, constructed substantially as described.
Seventh, I claim regulating the action of fluid retarders by means of a fly-ball governor or its equivalent, substantially as described.
Seventh, I claim the construction, urrangement and operation of gates said doors or gates being combined with suitable mechanism arranged in relation to stationary cams or projections on the eallery floors, or any configuous parts of the building so as to open and close automatically in the manner and for the purposes substantially as set forth.

Automatically in the manner and for the purposes substantially as set forth. Eigenth, I claim opening and closing the doors of the galleries or landing a statematically, by means of compound or multiplying levers, constructed and arringed substantially as described, and for the objects set forth. Ninth, I claim fastening and unfastening automatically the doors or gates of the car, by spring latches or their equivalents, operated by came or projections upon the gallery floors or adjacent walls of the building, substantially as described. Tenth, I claim fastening and unfastening automatically the doors or gates of the galleries or landings, by spring latches or their equi-valents, operated by cams or projections upon the car, substantially as described.

as described. Eleventh, I claim the arrester, u', in combination with the fluid retarder, for the objects and purposes set forth. Twelfth, I claim passing the shipping rods, and the cord or rod that operates the friction brake through the car or platform, for the objects and purposes set forth.

25.062 .- Wm. B. Twiford, of Chincoteauque, Va., for

an Improvement in Dumping Wagons: I claim the three-sided four-wheel, open frame, C, stationary crank axle, B, and long wagon body, D, when constructed and arranged for operating together, in the manner and for the purpose described.

[This invention relates to four-wheel dumping wagons, and is de signed to obviate the necessity of using a turning crank axle. The nature of the improvement consists in the combination in a peculiar er of a stationary crank axle having two short journals, with a wagon body, which is hinged to the frame at a point near the center of its length. By this arrangement an open space is left in the frame beyond the axis on which the body swings for the hind end of the body to move or descend through when the front end is elevated. This construction is more permanent than a turning crank axle, and is also much simpler and cheaper.]

25,063.-Felix Tylee, of Cleveland, Ohio, for an Im-

proved Spring-bed Bottom: Iclaim, first, The central support, C, when the same shall be con-tructed substantially in the manner and for the purpose set forth

structed substantianty in the manual arrangement of upper slat, D, Second, I claim the combination and arrangement of upper slat, D, pin, e, supports, f, with central support, c, spring, d, and blocks, a, when all shall be constructed and arranged in relation to each other as fully set forth and described.

other as fully set forth and described.
25,064.—Lorenzo Tyler, of Havana, N. Y., for an Improvement in Machinery for Sowing Fertilizers:
I claim the arrangement of the frame, A, hopper, B, partition, N, adjustable slide, J, and flexible classes, K, the whole being constructed and operated as and for the purpose set forth.

25,065.—Geo. H. Van Vleck and Horace Tupper, of Buffalo, N. Y., for an Improved Hose Coupling: We claim the arrangement on the thimble, A', of the head, C, with two or more screw threads, D, having its upper end incited down, as described, and being provided with a projecting rim, E, to operate in combination with the thimble, A, and with the nut, B, substantially as and for the purpose set forth.

[A simple and efficient hose coupling-that is, one that can be " set up" quickly and easily, as well when the water is turned on as when it is off, has long been a desideratum. Such a coupling is the object of this invention, which consiste in arranging at the ends of the thim-bles to which the hose is fastened a male and female acrew, with two or more threads, the female part of the screw being placed loosely over one of the thimbles, so that it can be turned independent from the hose and the mais part, which is cast out of one piece with the other thimble, and an additional rim that serves as a protection and assists in making the joint tight.)

25,066.-Amsey Warren, of Westport, Conn., for an

Improvement in Cultivators. earn the parting of deflecting bar, D, hoesor shares, E Er'G, rake, C, when applied to a suitable framé, A, provided with

wheels, B, the whole being arranged and combined to operate as and for the purpose set forth. [By employing a rake, hose blades, or shares, and a parting or de-ficeting bar attached to a mounted frame having a bandle secured to

it, a device is obtained that may be showed by a man between the rows of crops under cultivation, and these il pulverized and the weeds eradicated.

eradicated.]
25,067.—J. F. Waterhonse, of Germantown, Pa., for on Improvement in Knitting Machines:
Islaim, first, The sappl cation of a drum, 5, or its equivalent, with detachable pegs, to ope ate a series of independent thread guides hav-ing independent springs, when constructed and operating substan-tially as set forth and for the purpose specified.
Second, The striker, V, or its equivalent, constructed and aparating substan-tially as set forth and for the purpose specified.
Second, The striker, V, or its equivalent, constructed and aparating substan-tially as set forth and for the purpose specified.
Second, The striker, V, or its equivalent, so that the set of earbord of any of the pegs in the drum.
Third, Moying the pegged dram, or its equivalent, at intervals first in one direction and then in another, by means of the revolvin disk, S, and its two inclined projections in combination with the ratofic twicel, 2.
Fourth, Imparting a combined lateral and vertical reciprocating guotion to the needle bars by means of the de ices described, or their equ valents.
25, 068.—I. A. Will-inson of Brocklam N. V. for a

equ valents. 25,068.-J. A. Wilkinson, of Brooklyn, N. Y., for a Machine for Receiving and Piling Paper: claim, first, The accelerating bands, J. D3, and roller, o, arranged and acting as set forth, to project the shoets of paper successively over each other, as they subside in the air, and in combination with the foregoing parts, I claim the endless apron receiving such sheets as specified. Second, I claim the retarding bands, q and ss and q3, in combin-ation with the delivering bands, pl p3, for the purposes specified.

atom with the delivering hands, pl p3, for the purposes specified.
25,069.—J. A. Wilkinson, of Brooklyn, N. Y., for an Improvement in Rotary Presses:
I claim first, The curved demi-grap, c, w th the sliding clamp 6, and lip, 5, for the purposes as specified.
Second, I claim the curved compositors' shield, C3, for the purposes greeffied.
Third, I claim the arrangement of the proof cylinder, B, and rollers chorinking a proof from the types on the proof cylinder, B as set forth.
Fifth, I claim the horizontal gudgeon, a3, and binding screw, to secure the proof cylinder, and facilitate, the correcting of the types, as set forth.

set forth. Sixth, I claim the movable clamping segments,d', at the heads of the type or proof cylinders to secure the types in place, and also al-low for the removal of portions thereof, as specified. Seventh, I claim revolving the type cylinders in a trough contain ing alkaline or other suitable solution for washing the types as speci-fed

25,070.-Eri Wills, of Augusta, Maine, for an Improve-

ment in Stump-extractors: I claim the combination of the frame, O O, tongue, P, and shai with the wheels, R R, ratchet-device, H G I, levers, F F, and c B, constructed and arranged in relation to each other as and fo purposes set forth.

25,071.—A. P. Winslow, of Cleveland, Ohio, for an Improvement in Roofs for Railroad Cars: I claim the plates, D, caps, F, and grooved-rafters, B, when arran-ged substant ally as set forth for the purpose descriced.

25,072 .-- J. F. Wisnewski, of Cincinnati, Ohio, for an

25,072.--J. F. Wisnewski, of Cincinnati, Ohio, for an Improvement in the Preparation of Glycerine:
I claim the employment or use and introduction of the withln-named chemicals, in the relative quantities, manner and combination described for the purposes set forth.
25,073.--Edward F. Woodward, of Brooklyn, N. Y., for an Improvement in Skeleton-skirts:
I claim the sectional extension skirt, when combined and attached to the circular skirt, he whole being arranged and constructed in the manner and for the purpose set forth.

25,074.—Albert H. Wright, of Camden, N. J., for a Composition of Matter for Ornamental Purposes: I claim the composition of the matter described, the same consist-ing of the clay and sulphur with the emery, or its substitute, com-bined together substantia ly as and for the purposes described.

Diffed together substantia to as and to the purpose tocknown 25,075.—John K. Wright, of Philadelphia, Pa., for a Machine for Printing in Different Colors: Iclaim hanging the rollers used for printing separate colors and pat-terns on separate frames, D F, and constructing and arranging the said frames so that they may be adjusted independently of each other on therails, B, as and for the purpose set forth.

on therails, B, as and for the purpose set forth.
25,076.—Nathan Ames, of Saugus, Mass. (assignor to himself and Ward McLean, of New York City), for an Improvement in Revolving Stairs:
Iclaim, first, Arranging steps or stairs upon an endless belt, or in any manner equivalent, and placing them over rollers, substantially as described, so as to form a revolving fifth of stairs, which may be used both as a common flight and as an elevator.
Second, The triangular arrangement of the stairs, as shown substantially in Fig. 1 and 3, whereby an endless flight i made to pass around three rollers B D D, for the purpose described.
Third, The double parallel arrangement, as shown substantially in Fig. 1 and 3, whereby ascending and descending flights are placed side by side.
Fourth, The use of auxiliary stationary steps or stairs, to operate in connection with the soluted stairs, substantially as a dor rolor, both the state in the purpose set forth.
Fifth, The employment or use of rods or slots, to operate in connection with the slotted stairs, substantially as described and for the objects specified.

25,077.—L. S. Baldwin and Lucius Parks, of Leroy, N. Y. (assignors to L. S. Baldwin aforesaid), for an Improved Construction of Lightning-rods: I claim the employment of a quadrangular tube of sheet-metal with spiral-fluted adds, A, in combination with the straight central supervise, rod, B, substantially in the manner add for the purpose of forth.

25,078.-R. Eickemeyer, of Yonkers, N. Y. (assignor to

25,078.—R. Ecckemeyer, of Yonkers, N. Y. (assignor to himself and E. Underhill, of same place), for an Improvement in Sewing-machines: Finet, I claim the combination of the angular supporting-plate, F, with a needle applied and arranged to work through an opening in the angle of the said plate, and obliquely to both faces of the said plate, substantially as described, for the purpose of sewing obliquely through any subs ance supported in the angle of said plate. Second, I claim the combination of the angular supporting-plate, S as in its movements to follow the angle of said plate substantially as described.

the colliquely-arrange incente, and a torus, said plate substantially as described. Third, I claim the combination of the looper, v w, constructed with a stationary guide to combine the said of the substantially as described. Third, I claim the combination of the looper, v w, constructed with a stationary guide, 25, applied and arranged re atively to the needle and the angular supporting-plate, substantially a described. Fourth, I claim the arrangement of the feeding dog and presser, in a swinging frame, I, so applied, in combination with the angular supporting plate, substantially as described. Fight, I claim the substantially as described and from the machine substantially as described. Fifth, I claim the side, fitted as described to the angular plate, F, opposite the feeding dog, with its size recessed behind the general surface of the plate, a shown in Fig. 7, and having applied to it a spring, S, by which it is operated as described, in combination with the feeding dog, with its lips, 27, 28, applied substantially as described, in combination with the field, fitted as the plate F.

25,079.-Asahel Elmer (assignor to Nathan Elmer and

25,075.—Assher Enner (assigner to Nathan Enner and R. M. Pritchard), of Shabbona Grove, Ill., for an Improvement in Portable Capstan and Crabs: I clam so combining with the truck wheels or ground supports a capstan and crab, and a flexible rigging, as that the power of the team that draws the apparatus and works the capstan may be used for setting or anohoring the said crab and capstan, as well as to raise it up, reload it on to the truck, and transport it from place to place, substantially as described.

25.080.--Isaac Goodspeed, of Norwich, Conn., as ignor

25,080.—Isaac Goodspeed, of Norwich, Conn., assignor to himself and Geo. A. Mansfield, of Boston, Mass., for an Improvement in Bomb Lances:
I claim, first, The compound wing described, consisting of the wing proper, a, the lever, f, and the pin and slot at g, the whole being combined, arranged and operated substantially as herein set forth. Second, I claim the construction of a projectile having a prismatic the exterior surfaces of the prism fit such a manner as to expand in coincident plates, substantially in the manner and for the purposes set forth.

set forth. 25,081.—Louis Koch (assignor to himself and H. Fors-trick), of New York City, for an Improved Railroad Station Indicator: Islam the appron or band, K, wit the names of the streets or sta-tions on the line of the route mark d thereon, attached to and work-ing on rollers, II, or a revolving plate, or station y plate and revolv-ing index, when said appron, plate or index are operated from the run-ming-gear of the ear by suitable mechanism to give the same a con-tin uous movement and simultaneous with that of the car, for the pur-pose set forth.

25,082.—Morris Pollak (assignor to Morris Talkenan, Morris Pollak and Solomon Weiner), of Hoboken, N. J., for a Double Clasp-hook for Watch-chains,

cc.: I elaim the 5-shape or double elasp hook formed by the disks, b b, and clasp-laws, d d, on the center pin, c, that passes through the mid-die of the bent piece, a, substantially as set forth.

DESIGNS.

Robert Ham (assignor to Smith, Shelden & Co.), of Troy, N. Y., for a Parlor Stove. E.

J. Ney (assignor to the Lowell Manufacturing Co.) of Low II, Mass., for Carpet Patterns. (Two cases.) Isaac de Zouche, of St. Louis, Mo., for a Parlor Coal Stove.

N. E. Russell, of New York City, for a Table Fork.

DISCLAIMER.

William Blake, of Boston, Mass., for an Improvement in Gas-burners. Patented Aug. 9, 1845; dis-

claimerfiled Aug. 5, 1859: I hereby enter my disclaimer to that part of said burner which was set forth and claimed as the "ball shape or mouth of the lower part of the inner case of said burner." EXTENSION. William Blake, of Boston, Mass., for an Improvement

WITHIAM DIAKE, OF LOSGON, MASS., for an Improvement in Gas-burners. Patent dated Aug. 9, 1845: I clai the combining with the space. d. d, directly beneath the ori-ic s of discharge of the gas, and with the supply or branch these, f f, in expansive chamber e e, so as to operate in the manner and for the suppose set forth. Talso claim making the lower part of the inner ca e of the burner with a bell-shaped o ening or mouth, in the manner and for the pur-lose specified. an expa purpos I ale

ADDITIONAL IMPROVEMENTS.

ADDITIONAL IMPROVEMENTS. A. A. Richards, of Urbana, Ohio, for an Improved Lock. Patented Feb. 15, 1859: I claim the arrangement of the spring, f, collar, a, ring, x, screw, u, brake-wheel, W, and arbor, S, in the manner above described, so as to produce friction between the ring, X, and wheel, W, and arbor, S. and also the arrangement of the brake, k, indented flange, W, and stem, o, as above described, so as to prevent the revolution of the wheel, W, and a bov, and ring, X, and the external dial hand, sub-stantially as described.

Frederick Yeiser, of Lexington, Ky., for an Improvement in Instruments for Taking Altitudes of the Sun. Patented Feb. 8, 1859:
I claim, in combination with the rotary bar, E, the arrangement of the adjustable bar, F, and dial plate, R, and rotary cylinder, H, and adjustable disk, D, in connection with the bar, k, and plates, a substantially as and for the equation in sace through the lens, in such relation to each other, and to the rotary bar, E, that it operates substantially as and for the p iposes specified.

THIRTY-FIRST ANNUAL FAIR OF THE AMERICAN INSTITUTE, in the City of New York.-The Manage announce that the Exhibition will be opened at Palace Gar-den, in 14th-street, ne the 6th-avenue, on September 31, 1859. New Inventions and Improvements in the Mechanic and Industrial Arts, any articles of superior qual ty and beauty of workmanship, will be received from Sept. 15 to 30. Steam power will be provided to put in operation all kinds of machinery. Premiums will be awarded on the reports of competent and impartial judges. Circulars can be had at the office of the Institute, in the Coope Institute Building, corner of the street and 4th avenue. By order of the Managers. YM. B. LEORAED, Cor. Sec. D. R. JAQUES, Chairman. JOIN W. CHAMERIA, Rec. Sec: 82t

COBURN'S EXTRA OIL-FOB MACHINERY and burning; warranted first-rate (never Sume, will burn in night hamps, dc.): has given set i faction for ten years, during which we have sold it. JOHN W. OUINCY SCO. Is isofw No. 98 William-street, New York.

LEAVITT & CO., COMMISSION AGENTS FOR the Purchass and Sale of Machinery and Tools of all kinde. Orders by man faithfully attended to. Send for our Circular, No. 37 Park-row (vers Edentifie American Office), New York \$ it*



G. M., Jr., of Ill.-An electric light, such as you descr be, has been experimented with for a long time in principally in rega d to its application for light-houses. It has not yet been rendered perfectly practicable for this purpose.

S. R., of Mass .- If you run the piston of your engine S. K., of Mass.—If you run the piston of your engine at a velocity of 300 feet per minute, you will obtain the best results from it, we think. If the water in your boiler is clean, there is no necessity for running it offevery three weeks.
G. C. L., of N. Y.—You can dissolve india-rubber in

in warm spirits of turpentine coal-oil.

E. H., of Del.-You state that the steel tool which you were grinding became quite hot at the end farthest from the stone, and remained tool near the pointwhere it was being ground. If you employed water in grinding, it would carry offsome of the generated at the point; if not, your hand must have acted as a conductor to retain the heat conducted to the end of the teol. of the h

C. H., of La .- We are much obliged to you for the diagrams you send us. We thin , however, they will not afford suffi-cient general interest to our readers to warrant us in presenting them in our columns. We will send the paper to Mr. Mills; \$5 received.

W. P., of Ohio.-It will require a pipe with one square inch of area to be 1,692 feet high, and filled with water, toover a press re of 60 lbs. in a boiler. A column of water of the elevation exerts a press re of 611bs., nearly, on the square inch.

A. D. B., of Pa.-The molds for smooth brass ade of iron. Chilled iron-castings are also run in iron

- J. Z. W., of Vt.-It would be of no use to try to get circulars of all the mowing and reaping-machines ever patented. So far as we know, compressed air has not been used for teleg aphing, except by the use of the piston air-telegraph. The compression, however, was very limited.
- M. N., of La .- We have found sweet oil and rotten stone best adapted for cleaning mahogany furniture. It is rubbed on with a plece of fiannel first, then finished off by rubbing with an old silk hand erchief.

J. R., of Del.-Th bullets for the United States army are made out of sold metal by machinery, but we do no know how many are made per minute by one machine. All the cone bullets that we have se n were molded.

D. K. A., of Ohio.—We are confident that you cannot bleach coal-tar with chlorine, without altering its character in a measura; but you can easily make the experiment, at a very small

L. V. B., of Ky.-Iron water-tanks should all be coated with asphalt variab, put on het, and allowed to become perfectly dry before the water is admitted. Common pitch, heated in an iron vessel, and put on quickly with a br sh, will answer your purpose. s lined with lead should never be used for hold ng water intended for domestic purposes.

J. G. W., of N. Y .- We have endeavored to account for all explosions by pressure, and the cases to which you have re-ferredus may be so explained. We refer you to the letter of Mr. We

Washburn, inanother column, for confirmation of our views, should be glad, however, to receive your explanation of the m J. G. C., of Ala.-You will find the description of an ice-house on page 59, Vol. XIV., SCIENTIFIC AMERICAN.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Sat rday, Aug. 13, 1859:

Office business, for the week ending Sat rday, Aug. 18, 1869:-E. & R., of Mich., \$25; J. W., of Ohio, \$25; J. R., of La., \$30; H. W. W., of ..., \$30; A. B., of N. Y., \$55; Z. T. C., of Ind., \$30; J. A. P., of Ind., \$30; F. C. L., of N. Y., \$30; A. H., of La., \$30; T. C., of Texas, \$25; P. M. S. & Co., of Texas, \$25**#**H. H. B., of N. J., \$25; W. R. S., of N. Y., \$25; W. P. C., of Ohio, \$5; G. W. R. B., of La, \$55; L. R. F., of Ga., \$40; M. D. D., of N. Y., \$20; G. E. S., of Ill., \$30; J. H. S., of N. Y., \$55; T. G. W., of N. Y., \$30; A. L. C., of N. Y., \$30; E. K. B., of N. J., \$30; H. K. S., of Mass., \$30; B. F. A., of K.Y., \$30; W. S. M., of Pa., \$35; A. K., of Mass., \$30; P. & R., of Conn., \$40; H. R., of Ohio, \$10; R. D., of Mich., \$30; P. & R., of Conn., \$40; J. T., of ..., \$30; J. M. C., of ..., \$30; W. M., of Mass., \$35; J. N., of ..., \$30; S. & J., of Cal., \$25; R. S. L., of N. Y., \$55; T. & M., of N. S., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; S. & J., of Cal., \$30; S. B., of Wis., \$30; J. L. G. W., of Mich., \$300; C. G. P., S., of Cal., \$5; G. S. M., of Pa., \$25; T. & J., of Pa., \$30; C. G. P., of Ohio, \$25; T. G. G., of Ill., \$25; E. W. D., of Mass., \$26.

Specifications, drawings and mod ls belonging to parthes with the following initials have been forwarded to the Patent Office during the week ending Saturday, Aug. 13, 1859 :--

J. W., of N. Y.; W. E. S., of N. Y.; J. S., of III; S. & C., of Tex.; J. W., of N. Y.; W. E. S., of N. Y.; J. S., of III; S. & C., of Tex.; J. R., of La.; J. F. H., of N. Y.; A. H., of La.; M. D. D., of N. Y.; T. H. & H. W. S. C., of Texas; H. H. B., of N. J.; J. L. G. W., of Mich.; C. L. K., of Pa; T. G. W., of N. Y.; J. S., of Obio; A. M., of N. Y.; J. W. P., of N. Y.; E. M., of Mich.; A. C. M., of Vt; W. M., of Maine; W. & S., of Cal; R. D., of Mich.; G. S. M., of Pa; F. V. of Mase, S. L. O. of Corn. H. G. T. of Mich.; G. S. M., of Pa; of Mass.; S. L. O., of Conn.; H. G. T., of Mass.; E. J. H., of Pa.; A. E. & S. N. McC., of aine.

PARAGON COAL OIL BURNERS.—TO MANU-facturers of and Dealers in Coal Oils, and Coal Oil Lamps.—The above burners are admitted to be the best in use as to strength, least liability to get out of order, and ease of management; giving a larger blaze than any other burner. Lamps with the above burners, suita-ble for hand, handing bracket and side lamps; also, for Rail-ble for hand, noting bracket and side lamps; also, for Rail-coal Stations, Steambatt and Public Buildings. The best Burning and Lubricating Oils, as well as Lamps in quantifies to suit pur-chasers, at the lowest market prices. H. COULTING, 8 4t* No. 55 South Second-street, Philadelphia, Pa,