77,915.—Joint for Shackles.—John F. Reiner, Columbus 77,938.—Artificial Ivory.—William M. Welling, New York the candless suspended above such mold, substantially as herein described and set forth.

Ci'v, Iowa.
City, Iowa.
I claim a joint or shackle having parts, A and B. bolts, C and E. clutch, D. ndhollows, G. construct. d, commissed, and arranged substantially as speci-77.916.—CAN OPENER.—Charles F. Ritchel, Chicago, Ill.

I claim the can opener made of one piece of sheet metal, as described, provided with point, D, and blade, E, both arrange a and open atting subs. antially as herein shown and specifical.

77,917,—Gas Buent R—Wm. H Rodgers, Brooklyn, N. Y. 1 Cain, 1st, the cock, c, formed with the gas ways 2, 4, and 7, in combination with the opening, 3, and pages, 5 and 6, 10 supply gas to the champer, f, and jet, 1, when the jet, e, is extinguished, the parts being arranged and acting substantially as and for the purposes set forth.

25, The regulating series or cock, 8, in combination with the jets, i and e, and and for the purposes set forth.

77,915.—HARNESS LOOP.—Geo. W. Rowland, Salem, Oregon.

1 claim a winged metallic loop for attachment to harnesses, constructed to operate autorately as described. 77,919.—Mor. WRINGER.—Hugh B. Rorke, California, Mo.

Antedated April 29, 1868

Antedated April 29, 1868

Claim the rollers, B B', either with or without corrugations, the ear pieces, A, lever, C, when combined and arranged as described and set forth.

77,920.—MACHINE FOR TREATING HIDES.—Hermann Royer

77,920.—MACHINE FOR TREATING HIDES.—HEIMANN ROYER Lous Royer, San Francisco, Cal.
We claim, 1st. The vertical shaft, B. with a slot, B', and set screws, b b b, said shaft baving a forward and and back motion, substantially as and for the purpose described.
2d, The Pins or rollers, C.C., set in the rings, D and D', together with the grooved weight, 1, substantially as and for the purposes described.
77,921.—SOLDEHING FURNACE.—Geo. O. Sanderson, Boston, assigned to himselfand E. D. Goodrich Cambridge, Mass.

77,921.—SOLDERING FURNACE.—Geo. O. Sanderson, Boston, assignor to himself and E. D. Goodrich, Cambridge, Mass.
I Caim. 1st, The flattened tub.: A D E., when made and arranged substantially as described and for the purpo e set forth.
24. The combination as well's the arrangement of a 'unsen burner with a deflector. G. to the pieces, K. K. K. K. and the case N O, made substantially as described and for the purpose set forth.
77,922.—APPARAI US FOR HANDLING IRON IN ROLLING MILLS. Elias Sanford, Meriden, Conn.
I claim the part, C. with the valve, a, attached, and its peculiar construction, with the perpendicular bar, D, and double jointed lever, F, by which it is carried at ound and over the upper roll, and presented to the man in front of the machine, substantially as berein specified.
77,923.—Ragulating applications are tesschofted. Providence, E. L. Antedated March 20, 1860.
I claim, 1st, Causing the motion derived from any kind of governor, as trensmitted in one direction, to be stopped and controlled by an obstructing point or notch, or system of elevations and depressions, operating under the action of a governor, transmitted in annother direction, substantially as described.

scribed.

2d, Arranging the ratchet teeth in steps, or one above the other, in connection with a guard operating to produce a corresponding change in the elevation of the catches, substantially as and for the purpose specified, in any regulating or dispensing ine crashen.

3d, The combination of several elements, consisting, first, of a dispensing point.

mating or dispensing me consisting.

3d. The combination of several elements, consisting, first, of a dispensing device; second, of a wibrating bar or lever; and third, of an opposing point, placed in connection or combination with any governor or editor indicaton with any governor or editor indicaton of a desired change in the action of a machine, to operate substantially as

described. 77.924—Grain Drill—Jacob H Shreiner, Camp Hill, Pa. claim, 1st, The peculiar construction of the foot, B, substantially as and the purpose herein set forth and described.

The combination of the foot, B, cutter, C, and boot, A, substantially as

2d. The combination of the root, B., cattor, o, some herein shown.
Sd. The cutter guard, E., substantially as and for the purpose set forth.
4th, The combination and arrangement of the feed pipe or boot, A., cutter gustd, E., brace, D., cutter, C., foot, B., and share, d., substantially as herein set forth and for the purpose specifical.
77,925.—MACHINE FOR MAKING DRAIN PIPE.—Robert Skin-

ner, Sas Francisco. Cal.
I claim. 1st, The follower, G. constructed with slots, G'G', and the curved openings, F. F. in which t sites, ie combination with the stationary core, E and rug, N, sui stantially as and for the purpose set forth.

2d, In combination with the above claimed apparatus, the steam jacket, J for heating the same, and the material worked thereby, substantially as described.

77,926.—Churn —J. C. Slaughter, Crumpton, Md.

77,926.—CHURN —J. C. SIAUGITER, Crumpton, M.C. I claim, 1st. A casing, A, contracted in diameter near the bottom, in combination with a series of revolving blades, arranged nearer together at the lower than at the upp rend of the casing, for the purpose set forth.

2d. The frame. G. having blades, m, ratending across the same, and hung to the shaft, C. in respect to its blades, n, as and for the purpose specified.

77,927.—FOXING AND SOLING BOOTS.—Alfred G. Smith, Marather, M. V.

athon, N.Y.

I claim, as an improved article of manufacture, a foxing or fronting and soling for boots and shoes, constructed separately from the work to which it is to be applied, substantially as and for the purpose set forth.

77,928.—MEASURING-PAUCET.—James D. Smith (assignor to

Arthur P. Emery, New York city.

I claim, 1st. The combination, with a rotary measuring and drawing device, C, arranger in the chamber, B, of the Enact, A, and turned from the outside by crank or bandle, G, of the fast and loose differential wheels, I J, pinion, K, carried by the handle and wheels, M N, or their courvalents, for operating the mail. F, sub-taminally asshown and described.

2d. The dial, P, hung for independent action, as described, and for free rotarion with the wheel, N, by which it is driven by frictional gear with the latter, through a pring or springs interposed between said wheel and dial, essentially as specified.

spinled in the state of the sta

77,929.—DOUBLE STEAMER FOR TIN WORK.—CHARIES F. Spauleting, St. Johnsbury, Vt., assignor to bimself and E. D. Goodrich, Cambridge, Mass.

I claim, 1st, the carrying disk, F, the shaft, D, and crank. E, when combined with the compressing-disk, H, operating substantially as described, and for the purpose set forth.

2d. The intoler band, G, in combination with the disk, F, substantially as described, and for the purpose set forth.

3d. The standard, K, bivot, K, 'in combination with the brace, N, substantially as and for the purpose set forth.

4th, The combination and arrangement of the lever, M, shaft, I, sliding standard, J, and standard, K, substantially as described, and for the purpose set forth.

77,930.—Ditching Machine.—George H. Stevenson, Wash-

ington, Ohio.

I claim the construction or a spade that will cut a ditch ready for tile, thirty

es steep, without the use of any other instrument, and is useful for dig-post holes and many other useful things, which is done by the movable place and peculiar snape of the blace and lips attached thereto. foot-piece and peculiar shape of the blade and hips attached the San Fran-77,931.—Boot and Shoe Last.—James H. Swain, San Fran-

cisco. Cal.

1 cising the projection or flange, C, or its equivalent, on the face of the last, substantially as and for the put nose specified.

77,932.—PUDDLING AND BOILING FURNACE.—William Swin-

77,932.—PUDDLING AND BOILING FURNACE.—WITHAM SWIMtell, Allegheny City, Pa.
I clain, 1st, A bottom plate for a pudding or boiling furnace, cast with a
series of groove in craining the lower surface, in which to arrange a series of
water pipes, substantially as and for the purposes hereinbefore set forth.
2d. The use of a series of the blar water chills, at when arranged in grooves
cast in the lower face of the bittom plate of a boiling or pudding furnace,
substantially as and for the purposes hereinbefore described.
3d. Supporting the boshes of a budding or boiling turnace by a ledge or
rim, c, on the upper face of the bottom plate, and extending around in it the
out-lide line of the boshes, substantially as and extending around in it the
out-lide line of the boshes, substantially as and or the purposes hereinbefore

expressed.

4th, Jointing the boshes of a puddling or boiling furnace to the bottom plate and to cach other by ribs, e, so shaped as, in connection with lips, c', to form a dove-tail joint, substantially as and for the purposes set forth.

5th, Making chill-faced boshes tor puddling or boiling furnaces, by casting them against a metalic chill, substantially as and for the purposes hereinbe-

77,933.—Oscillating Rubbing Machine for Medical

1.505.—OSCILLATING RUBBING INACHINE FOR INCHINE TO USES.—George H. Taylor, New York city.

I claim, 1st., The rubber, A. composed of india rubber, and having its outer surface coated or covered with India rubber, the said outer surface being runished with projecting ribs, points, or corrugations, and the said rubber A being constructed substantially as and for the purpose specified.

2d. 1he combination, with the rubber, A. of the forked rod, C. hung on a pivot, E. and operated by any suitable mechanism, substantially as and for the purpose set forth.

2d. The combination with the rubber, A. and rod, C. of the crank, G. arm

pure sections... he combination, with the rubber, A, and rod, C, of the crank, G, arm compared, H, and shaft, I, substantially as described and for the pur-

3d. The combination, with the runber, A, driven by suitable mechanism, substantially as easy forth, of the concept, A, driven by suitable mechanism, substantially as set. forth, of the concept, A, driven by suitable mechanism, substantially as set. forth, of the concept, A, driven by suitable mechanism, substantially as set. forth, of the concept, A, driven by suitable mechanism, substantially as set. forth, of the concept, A, driven by suitable mechanism, substantially as set. forth, of the concept, A, driven by suitable mechanism, substantially as set. forth, of the concept, A, driven by suitable mechanism, substantially as set forth and paying for the said rubber A to work.

17,935.—TAILOUS 'Phe SSING MACHINE.—Joseph W. Thorpe, Hillsborough Bridge, N. H., assignor to bimself and David F. Brown.

1 claim, i.e., The arrangement of the socket, E, the sleeve, F, and the spin-die, J, with the press tron and its a justing handle, substantially as set torth.

2d. Supporting the heater at a distance from the face plate of the press iron, by means substantially as set forth.

2d. Supporting the heater at a distance from the face plate of the press iron, for the purpose specified.

3d. The arrangement of the acceptant of the spin-died, J, and press iron, for the purpose specified.

3d. The arrangement of the socket, E, the sleeve, F, and the spin-died, J, and press iron, for the purpose specified.

2d. Supporting the heater at a distance from the face plate of the press iron, by means substantially as set forth.

2d. Supporting the heater at a distance from the face plate of the press iron, for the purpose specified.

2d. Jan arrangement of the said exhibition of the circumferentially close revolving cylinder, and how the combination of the circumferentially close revolving cylinder, and how the combination of the circumferentially disable ring of said cylinder, and how the combination of the circumferentially disable ring of said cylinder, and how the combination of the circumferentially disable ring of said cylinder

d. 2d, In combination with the dircumferentially close cylinder, A, and screen ward extension, C, the adjustable ring or cover, K, essentially as shown didescribed.

and described.

3d, The arrangement, within the conductor, F, of the distributing apron, H, for op, ration in connection with the colinder, A, provided with lifters, and set horizontal, or the reabouts, as herein set forth. 77,936.—LAMP SHADE.—Gustav Wedekind, Philadelphia, Pa. t claum, in combination with the radial braces for supporting the shade on the chims y, the raised chows on said braces, to support the shade and prevent it from shaking about, substantially as and for the purpose described.

the chimin y, the raised endows on such praces, to support the small and prevent it from shaking about, substantially as and for the purpose set forth.

77,937—BED PAN ATTACHMENT FOR INVALID BEDS.—Sam'l G. Welling, New Rochelle, N. Y.
1 claim the movable elastic seat piece, in combination with the pipe and pan, substantially as and for the purposes set forth.

city. Ant-fated May 2, 1868.

1 claim the composition her in specified, prepared as set forth.

77,939.—CHURN DASHER.—E. B. West, St. Anthony, Minn.

1 claim, 1st. The arrangement of the arm, N, and stationary paddle, O, as specified, and for the purpose set forth.

24. The combination of the stationary arm, N, and its paddle, O, with the movable arm, M, it heir paddles, and the plate, A, all constructed and operated as specified.

rated as specified. 77,910.—Portable Music Stand.—Daniel M. White, Mal-

77,940.—PORTABLE MUSIC STAND.—Dallier R. Wheel, den, Mass.

I claim so arranging a convertible cane and music stand that when closed to form a cane, said cane shall consist of the hinged legs, B B B, and the tube, A, said parts being adapted to enclose the rod, D, and folding rack, C, and, when arranged as a music stand, the legs, B B B, shall be extended to support the tube, A, and the rod, D, and frame C be adjustably supported on the latter by means of the spring, S, substantially as described.

77,941.—TUBE WELL.—William H. White, Lynn, Mass.

I claim the combination, with a well tube, A, of the movable strainers of induction tubes, applied and operating substantially as described.

77,942.—PORTABLE FENCE.—Thos. B. Wickham, Granville, Ohio.

Ohio.

I claim the manner of locking and supporting the panels by the double brace and clamp, B B, in combination with the stakes, D D, and lock, C C, all substantially arranged as set forth in the foregoing specifications.

77,943.—PLATFORM CAR STAKE HOLDER.—Wm. J. Willits,

Detroit, Mich. Antestate April 28, 1868.

Leaim, J.-i., The aim, I. cams, N. N. collar, H. staple bolts, F. F., etc., clamp, E. plate, R. projection, O, staple bolt, F, nut, S, and lever, L. for the purpose E. plate, R. projection, O. staple both, I. had, S. hadles. L. clearing designed.

2d. The combination and arrangement of the stake, B, the sill, A, the gain, D, in the floor, C, the clamp, E, the staple bolts, F. f., etc., the coller, H, the arm, I, the head, K, the lever, L, the cams, N. N, the projection, O, staple bolt, P, the plate, R, the ring, X, and the stop, T, arranged substantially as described for the purpose designed.

77,044.—VEGETABLE WASHER.—George H. Tift, Morrisville, U.

Vt.
I claim the combination of the bolt headed journals, C C, when attached to the rotating cylinder, F, from its interior, and used with the pivoted blocks, J J, in the man eras specified.

## REISSUES.

2,925.—COVERING WHIPS.—Chas. C. Pratt, Westfie.d, Mass., assignce by mesne assignments of Gamaliel King. Patented June 18, 1867. Division 1. I. Claim, 1st, A water proof coating, consisting of the combined ingredients

herein shown and described.

2d. The application of the dissolved caoutchouc with or without the lead and oil, to a whip, substantially as and for the purpose shown.

2,926.—Covering Whips.—Chas. C. Pratt, Westfield, Mass., assignee by mesne assignments of Gamaliel King. Patented June 18, 1867. Division 2.

Division 2.
I claim, 1st, The covering of the body of a whip with an inner braiding, d, substantially as shown and described.
2d, The combination of the inner and outer braidings, df, with the varnish or coatings, ce, all applied in the construction of a whip, substantially as shown and described.
2,927.—Machine for Polishing Buckles.—Emanuel Analysis.

shown and de-cribed.

2,927.—MACHINE FOR POLISHING BUCKLES.—Emanuel Andrews, Williamsport, Pa, assignee of Robert G. Pine. Patented April 8, 1836.

I claim, 1st. The combination of the following instrumentalities, viz., the revolving polishing wheel, holder for the article, shaft for said holder, and springs to bear the article against the revolving wheel with a yielding pressure, substantially as before set forth.

24. The combination of the following instrumentalities, viz., the revolving polishing wheel, holder for the article, shaft for the holder, springs to exert a yielding pressure, substantially as before set forth.

33. The combination of the following instrumentalities, viz., the revolving polishing wheel, holder for the article, shaft for toe holder, springs to exert a yielding pressure, and traversing mechanism, to move the article transversely to the rim of the wheel, substantially as before set forth.

4th, The combination of the following instrumentalities, viz., the revolving polishing wheel, holder for the article, guide to limit the movement of the article towards the polishing wheel, and pattern for the article, shaft for the holder, guide to limit the inovement of the article towards the polishing wheel, and pattern for the article, shaft for the holder, guide to limit the inovement of the article towards the polishing wheel, and pattern for the article, shaft for the holder, spring, guide, and pattern, substantially as before set forth.

5th, The combination of the following instrumentalities, viz., the revolving polishing wheel, holder for the article, shaft for the holder, spring, guide, and pattern, substantially as before set forth.

7th, The combination of the following instrumentalities, viz., the revolving polishing wheel, holder for the article, shaft for the holder, springs to exert a yielding pressure, traversing mechanism, and guide to limit the movement of the article towards the polishing wheel, subsantially as before set forth.

2.928.—OPERATING THE TREADLES OF LOOMS.—Robert W the article towards the polishing wheel, substantially as before set forth, 28.—OPERATING THE TREADLES OF LOOMS.—Robert W Andrews, Stafford, Conn. Patented January 18, 1853. Extended seven

years. I claim the combination, in a loom, of the harness frame and cords with the treaties and treadle cams, constructed and operating substantially as described.

scribed.

Also, the treadles and the movers or cams, combined, constructed, and arranged so that by reversal of the cams upon the shaft, a reversal of the movements and a etentions of the harness frames is produced, substantially as heren set forth.

Also, in a cam loom having upright treadles or harness levers strung to the largest leaves of remains upon the harness levers strung to the

Also, in a cam loom having upright treadles or harness levers strung to the harness leaves or frames, and actuated by a single set of cam wheels, the arrangement of the fulcrum shaft of the harness levers directly over or within the vertical plane of the cam wheels, substantially as described.

2,929.—CORSET SPRING.—Francis L. Barnes, New York city, administratrix of the estate of Samuel H. Barnes, deceased. Patented July 17, 1866.

I claim a corset spring, consisting of the parts, B, provided with pins, b, and slotted springs. B2, riveted as show and having suitable clasps, C, and headed rivets, D, and of form corresponding to the body of the wearer, constructed and operating in the manner and for the purpose herein represented and described.

2,930.—Paper File.—Henry E. Woodbury, Washington, D.

2,930.—PAPER FILE.—Henry E. Woodbury, Washington, D. C. Patented August 8, 1854.

I claim the box or compartment document file, consisting of a box part, A, and spring platen or holder, B, the said noticer being hung or attached to a spring or springs, C, at its back, so as to give a flexible or yielding character to the platen, all constructed and operating substantially as herein described. 2,931.—HARVESTER.—Jacob V. A. Wemple, Quincy, Mich. Patented April 19, 1859.

I claim, 1st, A separating rod or finger, W, automatically interposed, for separating the falling grain from that which is being discharged from the platform.

separating the tailing grain from sharmans. See Separating the tailing grain from 2d. The rod or finger, W, pivotal piece, C, and standard, E, in combination with the rod, B, constructed and operating substantially a specified.

3d, A movable or separating rod and tinger, for separating the falling grain from the completed gavel on the platform, in combination with a single supporting standard or post, located at the inner end, or inner front corner of said platform, substantially as described.

## DESIGNS.

3,019.—Imitation Braid for Bonnets, etc.—Samuel A.

Blake, Milford, Conn.
3,020 to 3,032.—BRACKETS.—F. W. Brocksieper (assignor to Sargent & Co.), New Haven Conn.
3,033.—CARD RECEIVER.—F. W. Brocksieper (assignor to

Sargent & Co., New Haven, Conn.

3,034.—MATCH SAFE.—F. W. Brocksieper (assignor to Sargent & Co.), New Haven, Conn.

3,035.—MEDALLION.—Garret Erkson, Brooklyn, N. Y.

3,036 to 3,039.—Floor Oil Cloth Patterns.—Charles T. Meyer, Wergen, N. J., assignor to Edward C. Sampson.
3,040 and 3,041.—Figure.—Carl Muller and John Deacon,

New York city, 3,042.—CLOCK CASE.—George B. Owen, Winsted, Conn. 3,043.—Box Stove.—Asa Snyder and Alexander Delaney,

3,044.—Trade Mark.—James S. Waters, St. Louis, Mo., as-

1898.
I claim attaching the propeller, secured to a short shaft which passes throw and the runder to its main or driving staft, by a universal joint placed between these ern post and the runder, by which attachment the propeller is moved laterally with the movement of the runder.

APPARATUS FOR MOLDING CANDLES.—Willis Humiston Troy,

APPARATUS FOR MOLDING CANDLES.—Willis Fulmiston, Troy, N.Y. Letters Paient No. 10,730. Dated April 4, 1854. Reissue No. 2,106. Dated March 6, 1866.
I claim, 1st, The employment of the wick stretcher, E, so arranged and combined with the machine, having vertical stationary candle molds therein that the candle wick within such molds shall be uniformly stretched or strained before the material is run or poured into such molds, and the friction or strain be removed; therefrom before the candles are drawn or ejected from such molds in a vertical direction, substantially as herein described and set forth.

and set forth.

3d, I claim the employment of the candle tip bar, F, or any substantial equivalent therefor, which shall be so constructed and arranged as to be moved in a lateral direction up to, or against, or under the tips of the candles frame or ejected from the stationary candle moles below, and thereby come in contact with the tips of the said candles in such manner as to centur the candle wick in the said moles, and at the same time hold the said candles thus used candle with melted the said candle and during the cooling thereof, and until the wick is cut or severe between the said suspended and moled randles in said stationary candle moles, substantially as herein described and set forth.

and stationary candle moles, substantially as herein described and setforth.

4th, I claim a vertical stationary candle mold, constructed with an inner and annular shoulder, h, and with an ourser surrounding shoulder, c, and with a screw and nut at or near the lowerend thereof, in the manner and for the purposes substantially as herein described and set forth.

5th, I claim the contraction of the lowerend of the vertical stationary candle molds, so as to form an inner annular shoulder, in the manner and for the purposes substantially as herein described and set forth.

5th, I claim the mode, substantially as herein described and set forth, for attaching to, and combined with the lower endot the vertical stationary candle molds, having an outer surrounding shoulder, c, and the bottom plate, B', of the surrounding water box, so as to make the same water tight and firm therein, in the manner and for the purposes substantially as herein described and set forth.

7th. I claim the employment of the shovel blade cutter, J. or any equiva-

scribed and set forth.

7th, I claim the employment of the shovel blade cutter, J, or any equivalent therefor, and the passing of the same between two rows of the wicks of the vertically suspended candles, so as to cutor sever the two rows of the said wicks, in the manner and for the purposes substantially as herein described and set forth.

scribed and set forth.

RAILROAD CARS.—B. J. La Moth, New York city. Letters
Patent No. 10,721. Dated April 4, 1854. Reissue No. 360. Dated March 18, Patent NO. 10,721. Dated April 7, 100... 1856.
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manner and for the purposes specified. SEWING MACHINE.—Samuel J. Parker, Ithica, N. Y. Letters SEWING MACHINE.—Samuel J. Parker, Ithica, N. Y. Letters Patent No. 10,757. Dated April 1, 1854. It claim that combination that secures to me the relative position in which I place the needle's eye to the movementor the material or feed motion, and and the position of the shuttle and its race resulting therefrom, when the needle is straight and the table on which the material to be sewn is horizontal, said relative position meaning the longitudinal axis of the shuttle and its race at right angles to the feet motion, and the consequent position of the needle's eye therefrom, so that the line drawn through the needle's eye, when in the act of passing the center of the material sewed, shall coincide with the line of feed motion, not be at right angles therewith, and this for the purpose of rendering the exitch more nearly straight and perfect than it otherwise would be, the combination and purpose substantially as described.

HEATING SKELPS FOR THE MANUFACTURE OF WROUGHT IRON TUBES—James McCatty. Reading. Pa. Letters Patent No. 10.747.

ILEATING SKELFS FOR THE MANUFACTURE OF WROUGHT
IRON TUBES—James McCarty, Reading, Pa. Letters Patent No. 10,747.
Dated April 3, 1854.

I claid the new mode of operating, as described, viz., heating the skelps in a furnace constructed substantially as herein set forth, with raw coals as furl, whose combustion is maintained by a blast of air forced into the furnace under pressure. as set forth.

VESSELS FOR HOLDING LIQUIDS.—Julia M. Colburn, Baltimore, Md. administrative of Lynes Stimpson deceased Latters Patent

VESSELS FOR HOLDING LIQUIDS.—Julia M. Colburn, Baltimore, Md., administratrix of James Stimpson, deceased. Letters Patent No. 11,819. Dated Oct. 17, 1854. Antedated April 17, 1854.
I claim the employment of a chain or string attached to the handle and lid of a pitcher, as described.

TREATING CANE FIBER FOR PAPER AND OTHER PURPOSES.
Benj. A. Lavender, Halifax, N. C., and Kate Lowe, Baltimore, Md., administratrix of Henry Lowe, deceased. Letters Patent No. 10,722. Dated April 4, 1854.
We claim breaking down woody fiber of cane and other like plants, and dissolving the gummy and other foreign matters therefrom by means of muriatic or sulphuric acid. of the strength of 10° Baumé, or thereabout, preparatory to making hemp for bagging, rope, paper pulp, etc., in the manner substantially as set forth.

MACHINERY FOR LAYING ROPE.—Stephen Bazin and James

MACHINERY FOR LAYING ROPE.—Stephen Bazin and James

riate or suphuric acid. of the strength of 10 Baumé, or thereabout, preparatory to making hemp for bagging, rope, paper pulp, etc., in themanner substantially as set forth.

MACHINERY FOR LAYING ROPE.—Stephen Bazin and James A. Bazin, Canton, Mass. Letters Patent No. 10,823. Dated April 25, 1854. We claim adapting the machinery for forming both hard and soft cordage by means of the ring, g. so accusate by the circular plate, i, and its rollers may to revolve, or hold statonary, as alove set forth, as to form an extra twist in the rope when desirable, by giving an additional revolution to the bobbin frames, as above described.

We also claim an improvement in the movable crane, the same consisting informing to d a bent shape, with the right angular hinged arm operating as above described, so as to feed the rope in a direction parallel with the axisof the winding reel.

We also claim an improvement in the movable crane, the same consisting informing to d a bent shape, with the right angular hinged arm operating as above described, so as to feed the rope in a direction parallel with the axisof the winding reel.

We also claim as the state of the rope after it is laid, by means of the double pulley, r b, with grooves of different diameters, as above set forth.

Cofffee Por.—James Buell, New York city, executor of Jas. MacGregor, Jr. deceased. Letters Patent No. 10,732. Dated April 11,1854. I claim having the pot where the tea or coffre is prepared at right, and so regulating the leat that is applied to the heating of the same that a small prission while the reason while the cold air from the ione was the reason and the products of communion being passed through in the data and so the product of communion being passed through in the other, by which means the heat is extracted from the breated are and smoke and trans

ton, D. C. Letters Patent No. 10,847, dated May 2, 1854.

Inmroved manufacture of whole or half sets of porcelain or mineral teeth, substantially as described.

## EXTENSION NOTICES.

Alexander Hay, administrator of the estate of M. C. A. Mellier, deceased, ot Philadelphia, Pa., having petitioned for the extension of a patent granted to the said Mellier the 26th day of May, 1854 (said patent was also granted in France Aug. 7, 1854, and in England Oct. 26,1855), for an improvement in making paper pulp, for seven years from the expiration of said patent, which takes place on the 7th day August, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 20th day of July next.

Albert G. Safford, of Boston, Mass., having petitioned for the extension or a natent granted to him, the 8th day of August, 1854, for an improvement in applying springs to windowsashes, for seven years from the expiration of said patent, which takes place on the 8th day of August, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 20th day

Jarah W. Reed, administratrix of the estate of Cheeney Reed, deceased, and Jane E. Mould, administratrix of the estate of Brooks K. Mould, deceased, of Chicago, Ill., having petitioned for the extension of a patent granted to the said Cheeney Reed and Brooks K. Mould the 8th day of August, 1854, for an improvement in ventilating railroad cars, for seven years from the expiration of said patent, which takes place onthe 8th day of August, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 20th day of July next.

Jacob Senneff, of Philadelphia, Pa., having petitioned for the extension of a patent granted to him the 13th day of January, 1852 and additional improvement granted thereon the 20th day of July, 1852, toran improvement in metallic heddles, for seven years from the expiration of said patent, which took place on the 13th day of January, 1866, this application having been authorized by act of Congress, it is ordered that the said petition be heard at the Patent Office on Monday, the 20th day of July next.

Inventions Patented in England by Americans.

[Compiled from the "Journal of the Commissioners of Patents."] PROVISIONAL PROTECTION FOR SIX MONTHS.

910.—PPEPARING IRON ORE FOR SMELTING, AND FURNACES THEREFOR.-Alois Thoma, New York city. March 17, 1868.

1 096 .- SEWING MACHINE .- Geo. Repfuss, Philadelphia, Pa. March 31, 1868 . 1,109.-Corton Gin.-Joseph H. Adams & Coombs, New York city. April 1.1988. 1.212.—Mode of Venezeing Paper, Chote, Leather, etc.—Samuel W Huntington, Augusta, Mo. April 11, 1985.

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