ture of candy, together with the process of making the same, substantially as set forth in the speci leauon. 53,914 .- Transmitting Power.-Jacob Woolf, Burr Oak,

270

53,915. Rotary Engine.—Henry J. Behrens (assignor to himself, Henry C. Dart, and Edward Dart), New York

nimsell, Henry C. Dart, and Edward Dartl, New York City: First, I claim the concentric fixed hubs. revessed substantially as de-scribed, in combination yith the two reared shafts, their attached pistons and the cylinder, substantially as herein set forth. Second, The psions attached to the facing sides of the two disks, se-cured to their respective shafts, and so arranged that the piston or pis-tons of one shaft work against theface of the disk of the other shaft, substantially as herein described.

Substantial as better described.
53,916. — Hame for Horse Collars. — John E. Brown (assignor to hinself, Charles A. Mott, and A. A. Peebles), Lansingburgb, N Y:
First. I claim the abilistable collar, R. arranged with the spring, d.g. and the apring, f. in combination with the holes, h. in the plate. a, at the out reduce Theory and the substable collar, B. arranged with the spring, d.g. and the apring, f. in combination with the holes, h. in the plate. a, at the out reduce Theory are substable collar, B. arranged with the spring, d.g. and the apring, f. in combination with the holes, h. in the plate. a, at the out reduce Theory are substable for the purpose set forth outer end, and secured to the bame by the reset, g. to admit of the eye, j. of the trace strap being adjusted bicher or lower i the loop, and retained as adjusted by the pole straps, substantially as shown and der geribed

scribed 53,917.—Balling Press.—J. B. Gridley, Louisville, Ky.: First, f Calim in a ball is press, the levers, G G, having their inner ends spice or near the conter of the follower, in combination with ends spice of the set of the follower, in combination with respective of the spice of the follower, in the spice of the levers are made to approach each other, substantially as and for the levers are made to approach each other, substantially as and for the

hangers. rods or ba s. I I, which alford the fulcra tor said jevers, and a rope, chain or other dra: the levice. whereby the loose ends of the levers are made to approach each other, substantially as and for the purposes herein specified. Second, in combination with the levers which are made to act upon the follower, by having their loose ends movel toward each other, and which have their fulcra upon hangers, rods or burs, I claim a rope chain or up other device which shall impart motion to the fullower, be fore the levers attain their effective acting position, substantially as and or the object set forth. Third, I claim the means substantially as herein described, for adapt-ing the levers, in assuming the position from which they may upon the follower, said means, consisting either of the widening of the levers at the points where the hangers or rods I. from which they may upon the follower, said means, consisting either of the widening of the levers at the points where the hangers or rods are attached, or in the ap-gleaction of the metallic blocks, H, or their equivalents. Fourth, I claim the combination with the levers, G G, hangers, I I, and rope, K, of the follower C, D, ribs, d', and guide slots, a, the letter being adapted to percent the ulti-g or canting d. Mith, I claim the persential manner of constructing the point which connects the levers with the follower, to wit: by means of the three parts, E F convected by a single plotte, c, as herein described. Stat, I claim the eart-cular manner of constructing the point which connects the levers with the follower, to wit: by means of the three parts, E F , convected by a single plotte, c, as herein described. Stat, I claim the eart-follower, the site properse and the rease of the three stats, E F , convected by a single plotte, c, as herein described. Stat, I claim the eart blocks, H, or their bury pose here is setfort. 53,918.—Metallic Fastening for Plow Beams,—Lewis

18.-Metallic Fastening for Plow Beams.-Lewis Gibbs (assignor to Bucher, Gibbs & Co.), Canton, Ohio: 53,918

Uhio: I claim a metallic fastening for uniting a plow beam and handle, made with lugs, flanges and recesses, and united the recoin the manner and for the purpose herein described and represented.

purpose nerven described and represented. 919.—Coffer Dam.—Aaron Filmore (assignor to himself, B. H. Anstin, Jr., and Adolphus S. Austiu), Buffalo, N. Y.: claim a portable. coffer dam. A, (with or without a movable end se, A2), for the purpose and substantially as described. 53.919

53,920.—India Rubber Hat and Substantianty 38 described.
53,920.—India Rubber Hat and Cap Band.—William H. Halsey, Hoboken, N. J., assignor to David W. Mapes, Orange, New Jersey:
I claim the combination of the two rollers, with their surfaces pre-pared as described, one roll having a sunken or depressed and the other an e evated surface, substantially as, and operating as and for the pur-pases set forth. set forth.

poses set forth. 53,921.—New Article of Manufacture from Hard Rubber, to be used in Articles of Dress.—William H. Halsey, Hoboken, N. J., and Maurice Fitzgibbons, New York City, assigners to David W, Mapes, Orange, N. J.: We claum as a new article of manufacture, hard rubber or gutta perch. or similar material, ornamented by being subjected to two or more successive pressures or impressions of figured rolls, substantially as above described.

as above described.
53,922.—Hard Rubber or Gutta Percha for Articles of Dress and other use.—William II. Halsey. Hoboken, N. J., and Maurice Fitzgibbous, New York City, as signors to David W. Mapes, Orange, N. J.: We claun the process have in, substantially as described, which con-sists of subjecting hard rubber, gutta percha, or other similar material, to two or more successive pressures of figured rolls, substantially as and for the purposes above described.
53,923.—Stencil Brush.—Daniel K. Herr, Locust Valley, Pa., assignor to Theodore W. Herr, Lancaster, Pa.;

Pat Pat Patient Patien Change D, construction and the purpose specified. Second, The brush, J I, when expressly made or adapted to my brush tube, G, and o be used in combination with the external casing, B, in the manner and for the purpose set forth.

53,924.—Nail Plate Feeder.—C. D. Hunt, Fairhaven, Mass., assignor to the American Nail Machine Com-

pany, Boston, Mass. I claim the combination and arrangement of the double rack bar, K, the pawis, I I, the iever, G, the spring, M, and the cam, H, as applied to the vibratory arm, A, and the shaft, E, substantially as specified. 53,925.—Stovepipe Damper.—Summer Marvin (assignor to himself and Alfred W. Boynton), South Royalston,

Mass.: I claim the damper apparatus, composed not only of the frustum, A, avog the opening, b b, but of the two dampers, U, D, and their con-ecting rod, E, made indarranged together, and with a flue or pipe, B, ubstantially as specified. Machine — Andrew A. Reed, North 53,926.—Eyeleting Machine.—Andrew A. Reed, North Bridgewater, Mass., assignor to Elmer Townsend, Boston Maco

53,926.—Eyeleting Machine.—Andrew A. Reed, North Bridgewater, Mass., assignor to Elmer Townsend, Boston, Mass.:
I claim the combi ation of the stationary work-supporting surface, the punch, and the setting mechanism, when the latter is arranged to feed the eyelet lat-rally to, or under the hole punched for its insertion.
substantially as described,
I a.so claim the construction by which the eyelet is removed by the feed pin. directly from the magazine, without the intervention of a chute or roadway, substantially as described.
I also claim the combination of a stationary eyelet magazine, with a rotation gring, provided wich pockets, mito which the eyelets are thrust, substantially as described, and from which they are removed by the feeding instrument, substantially as set forth.
53.927. Sewing Machine for Sewing the Sweat Linings to

the solution of the manner described, in combination with a substantiative specific 53.927

We

53,928.—Detaching Boats from Davits.—E. H. Sheffield, Stonington, Coun., and E. P. Pahner (assignors to E. H. Weston), New York City:
We claim the jointed books, c. fitting into ockets, d, on the ends of a boat A, in combination with the retaining halms, f, and with suitable

mecbanism for tightening or releasing said cbains, constructedand oper-ating substantial y as and for the purpose described. 53, 29. - Barvester Rake.- Thomas Taylor (assignor to Samuel C. Ridgeway and John Fox), Baltimore, Maryland:

I claimed the combined action of the crank shaft and curved arm of ther ker, moving in the swireled guide for giving motion to, and oper-ating the raker, as herein recited.

53,930.—Horse Shoe.—Cassius M. Werner (assignor to him self and Edwin A. Bigelow), Rockford. Ill.:

First, I claim forming the clasps with open loops, a s and for the pur e described. cond. Casting the clasps in one piece with the flange bar, as de-bed, for the purpose set forth. bird, The combination of the sole, the ribs, the flange bars and the ps substantially as described.

53,931.—Artificial Lcg.—James W. Weston and Frederick Buckner, New York City, and Reinhold Boeklen, Brooklyn, N. Y., assignors to James W. Weston New York City:

ef forth. Second, We claim forming the ankle joint apring in the manuer speci-ed, with th : front portion thereof more rigid than the back portion, in rder that the foot may conform to the surface stepped upon, as set with fied, order fo th

order that the foot may conform to the surface steeped upon, as set for th. Third, We claim a connecting bolt with rounded heads or nuts in com-bination with the elastic ankle joint, substantially as and for the purposes specified, and in combination therewith we claim the sheet-steel socket for the heads, as set forth. Fourth, We claim the elastic stop block or blocks applied as shown, to arrest the forward movement of the lower limb, as specified. Fifth, We claim the hooks, II, formed of a bent piece of metal passing around the limb at the joint to strengthen the same, in combination with an elastic contractile band or spring applied betweensaid hooks to throw the lower limb forward, as specified. Sixth. We claim adjusting the limb to the coileal shepe of the stump by the limb of the corred adjustable wedge, or its equivalent, as and for the purposes specified. S-venth, We claim the cooleal filling pieces introduced into the arti-ficial limb, as specified, to adjust the limb to the stund past of the cort. So we have the config filling pieces introduced into the arti-ficial limb, as specified, to adjust the limb to the stund past of the stund for the purposes of the config filling pieces introduced into the arti-ficial limb, as specified, to adjust the limb to the stund past of the purposes of the config filling pieces introduced into the arti-ficial limb, as specified, to adjust the limb to the stund past of the purpose.

53,932.-Saddle and Harness.-Achille Angeline, Genoa

Italy

First, I claim in the manufacture of cushions or pads for riding sad-dles, pack saddles, and harness of sal kinds, of elastic substances, such as vilcanized guita percha or caoutchouc when of the form and shape, substant ally set forth. Second, The formation of said elastic substances into tubes, do uble tubes, dice, knobs, or spheres, substantially as and for the purposes here-in set forth.

53,933 — Rocket. — William Hale, London, England: I claim the application of the principle by which the expansion of the whole volume of the gas as it issues from the vent is marie to subserve the purpose of producing rotation in the rocket about its longitudinal axis, substantiany as described.

53,934. — Steering Apparatus. — Morris West Ruthven, Middlesex County, England. Patented in England Nov. 10, 1864:

I claim in combination with a tiller operated by gears, pivoted levers and links substanti ly as herein described, a weight or spring which reserves or stores the power with which the water forces the rudder in one direction, and is applied to aid the helmsman in auting the rudder over in an opposite direction, substantially as set forth.

53,935-Peat Machine.-James Hodges, Penny Hill, Bag. shot, England :

First, I claim the pulping trough and separator, E F, provided re-pectively with the spider diaphragms, I, and fixed bars, K, and also rovided with the shaft. G, having upon it the vanes, J, and bars, L, all rranged to operate in the manner substantially as and for the purpose et forth.

arranged to operate in the manner substantially as and for the purpose set forth. Second, The pulping and distributing trough, N, provided with dia-phragms, c, having a varying number of arms, and with a shaft, O, having vance, P, upon it, arranged to sperate substantially in the manner as and for the purpose specified. Third, The combination of the screw excavators, elevator and pulping mechanism applied to a ves el, and arranged for joint operation, sub-stannally as and for the purpose set forth. Fourth, The preparing of the peat bed with subsoil drains, substan-tially as described, when used in connection with a vessel provided with an excavator and pulping apparatus, substantially as set forth.

36.-Rudder.-Morris West Ruthven, Middlesex Co., England. English Pat. July 11, 1863 : 53,936.

England. English Fat. July 11, 1003: I claim in combination with a rudder composed of a series of hinged sections, the connecting of said sections at their upper ends by means of a slotted crank or lever on one part that receives in itsslota pin or anti-friction roll on the next adjacent part, and so on throughout the series, to cause the parts when moved by the rudder to assume an approximate curve, substantially as described.

53,937.-Sluice for Propelling Vessels.-Morris West Ruth ven, Middlesex County, England. Patented in Engven, Middlesex Coun land May 1st, 1865 :

I claim the employment in the propelling of vessels of rotating s such as are herein described, each in combination with twn notine, ages, the shife in each case being arranged to turn with its axis the periphery and ends of the suice are free as may be from c with the inclosing surfaces of the chamber in which the shifes is d, by which arrangement the shife may be urned comparativel from friction, and consequently requires but little power to turn if ulce is contact ulce is contain paratively free

53,938.-Swing.-John F. Hartman, Fond du Lac, Wisconsin :

I claim the combination and arrangement of bar, B, and swing bars, D D, with the levers, E F G and H, and rope, I, substantially as and for the purposes set forth.

53,939.—Pump.—A. Leuchtweiss, Cincinnati, Ohio: I claim the sharp-edged abutment, c.in combination with the discharg pumsage, a, sorew, C. and cylinder, A. constructed and operatidgsubstan tially as and for the purpose described.

REISSUES.

2,221.-Gang Plow.-N.F. Burton, of Galesburg, Ill. Pa-tented Oct. 28, 1861 :

First, I claim the device for adjusting the beams, A A', by means of late, f_1 and clamps, e.e. and bars, g g, substantially as set forth, where y the depth of penetration of the plows, M and I, may be changed at

searce ereand, The combination of the subsoril plow, I. having a long-winged old board, with the surface plow, M, arranged as and for the purpose

set forth. Third, The attaching of the axle, D, to the beams, A. A', throu b the medium of the bal-shapedrod, L, in combination with the arm, H, attach-ed to the axle, D, and having its bearing or fulcrum on the rod, L, as herein described, whereiv the depth of the penetration of both polows may be regulated at pleasure, and they may also be madetor run out of the ground when desired.

2,222.—Lock.—Rudolph Vollschwitz and J. J. Schnaepfer, (assigners by mesne assignments of F. Randolph) New York City. Patented July 25, 1865:

First, We claim a lock with a tubular case, B, containing a bolt, D, and one or more tumblers, E, to be operated from either side by a key, K. substantially as and for the purpose set forth. Second, The latch, F, in combination with the bolt, D, avd tubular case, B, constructed and operating substantially as and for the purpose de-scribed.

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2.223. — Revolving Fire-Arm.—J. J. Greenough, New York City, assignce of James Warner, Springfield, Mass. Faltented June 24th, 1856: First. 1 claim the employment of a pin or other projection as described in the shield or rare frame for receiving recoil of the breech constructed as herein described, at a point just behind and in rear of a chamber that is on a nue with the barrel when in position to be discharge ed for firing the arm, as and for the purposes above set forth. Second, I also telim making the pin or projection, E, adjustable, substantially as and for the purposes set fortd. Third, I claim the cavities, if i, in the battery plate, c, in such position and of such torm as to receive and hold the ball or balls in case of the barrel discharge of any of the chambers not in adjustment with the barrel, as described.

and of such torm as to receive and hold the ball or balls in case of the barrel, as described.
2,224. - Harvester. - Reuben Hoffheins, Dover, Penn. Pa tented May 20th, 1862:
First, I claim a sweep rake which is mounted upon the heel of the finger beam proper, or upon the inner front corner of the platform of a barrester which has its rutting apparatus and platform hinsed to the draft frame, all in such manner that the rake arm sweeps the platform in the form from the joint of joints by which his mere the platform in relation to the farger beam proper, or upon the inner front corner of the platform in the form the joint of joints by which has correct position in relation to the farger beam and patform during the rising or failing norwments different the joint of joints by which has farger beam is connected to the draft frame, substantially as set torth. Second, a rake rolating upon an axis which is perpendicular to the top surface of the platform, or nearly so, and having its armscoresized. Third, The angular rake arms rotated independently of the axis f, and control de substantially as der ched, in combination with a guide way which is perpendicular, or nearly so, and having its armscore described. To four the burst and a substantially as and for the purpose described. To purp any substantially as a der they, whereby I am enabled to dispense with an incline plane or canway, as set fort. The sequivalent, rigidly must and along the buryon or the platform or finger beam, and adapted first spoproing a steep rake mad nucleaning pushton in relation to finger beam, and adapted first spoproing a steep rake mad nucleaning pushton in relation to finger beam, and adapted first substantially as described and shown of the platform or finger Sixth A standardors support, F, which substantially as and for the purpose set forth. Seventh, A relating to the abade and for the purpose set forth. Seventh, A relating to abastantially as and for the purpose described. The platform thereof, substantially as described and shown of the p

as described, and a sincer beam and platform with the main frame, by means of a biged draw bar, h. a hinged brace, I, a hinged supecter, f, and an extension bracket, 2 or their equivalents, substantially as and for the purch of he centing apparatus and hinge-joint, e, on the draw bar, substantially as and for the purpos's described. Elerenth, Preventing a too sudden or abrup: deflection of a rake and reel mounted upon a binget-joint util gaparatus by carrying the point of suspension beyond the rake support, towards the centre of the with the dimension beyond the rake support, towards the centre of the point of suspension beyond the rake support, towards the centre of the point of suspension beyond the rake support, towards the centre of the point of suspension beyond the rake support, towards the centre of the point of suspension beyond the rake support, towards the centre of the point of suspension beyond the rake support, towards the centre of the centre of the draft frame, when suid rake is located bet ween the of the platform, substantially as described. Thirteenth, The combination with a double hinged joint combined of the platform, substantially as described. Thirteenth, The combination with a double hinged joint combined into gaparatus sites and fail tocether while reaping 1 and also in such manner that the rake and platform in such manner that the rake and iting apparatus sites in the rad outer ends lowed to float upon the ground and to accommodate liself at both ends to the undustions of the ground and to accommodate liself at both ends to the undustions of the ground substantially as a described. Fitteenth, The combination of a suspended hinge joint cutting apparatus sasses, substantially as a substanted to receive and reet arms by paractus of harvesters and a combined rake and reel, which is mounted directly and wholy upon the suspended platform or hinged forger beam, substantially as a different of the respect verafic and reet arms passes, substantially as described. Systeenth, The combination of a

described. Fighteenth, The pulley support Q, with its pulleys, W2 V2. in com-bination with a band or chain, N, and pulleys, W1 W3, substantially as and for the purpose set forth. Nineteenth, Providing In a harvester with the rake attached to its hinged finger beam or platform, an extensible means for driving the rake. which will permit the platform and rake to rise and fall together and accommodate themselves, independently of the draftrame, to the undulations of the ground, substantially as described and for the pur pose set forth. undulations of pose set forth.

2,225.—Knitting Machine —Joseph Hellen (assignee by mesne assignments to John Nesmith), Blair, Penu. Patented July 16th, 1850 —extended 7 years: First, I claim forming the needle in the manner substantially as de-scribed, so that each needle shall be capable of being separately project-ed and withdrawn in the operation of knitting, by the asplication there of mechanism, substantially such as described, for producing these move-ments.

of mechanism, substantially such as described, for producing these move-ments. Second, I also claim the above described means of crojecting and withdrawing the separate needles, or any other substantial equivalent of a kitting needle what are negreent, if the needles on a cylinder, in the manner described, in connection with the described means of moving or revolving the cylinder as a needle carrier. Fourth. I also claim the arrangement, if the needles on a cylinder, in the manner described, in connection with the described means of moving or revolving the cylinder as a needle carrier. Fourth. I also claim the combination of the jack, the sinkers and de-pressers, substantially as described. Fitth, I also claim the form dimarter, v, having an extended sideway motion to and fro, at each stich, by which they ready for the next stich. Sixth, I also claim the spring vise for regulating the supply of thread to the needle, opened by the rod, W, substantially as described. Seventh, I also claim the mather arrangement and combination of the several parts of the machine by which they various notions are de-rived from a single orank and screw thread, substantially as described.

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