

No. 15,072. Improvements on Commutators for Dynamo-Electric Machines.*(Perfectionnements aux commutateurs des machines électro-dynamiques.)*

Elihu Thomson, New Britain, Ct., U.S., 8th July, 1882; for 5 years.

Claim.—1st. In a commutator composed of three or more segmental blocks, each block covering an angle equal to the angular distance of the commutator brushes apart, whereby the armature wire terminals are put into connection with both commutator brushes, when at or near the neutral point. 2nd. In a three branched armature coil system, the free terminals of which are connected singly to three segments of a commutator ring, each segment covering an angle of one hundred and eighty degrees and provided with a pair of commutator brushes, resting on diametrically opposite portions of said commutator ring. 3rd. A system of armature coil terminals connected successively to segments of the commutator, and adapted to be put successively into connection with both commutator brushes, when at or near the neutral point of neutral polarity.

No. 15,073. Improvements on Apparatus for Rectifying Petroleum. *(Perfectionnements aux appareils de raffinage du pétrole.)*

Louis Daul, Buffalo, N.Y., U.S., 8th July, 1882; for 5 years.

Claim.—1st. In combination with still A and rectifier B, the separating chamber D provided with openings *aaa* and *fff*, the steam pipe *b* and discharge pipe *c*. 2nd. In combination with the main portion or walls, the perforated plates *ccc*, pipes *d* and cup *dh*, the coils or worms *ggg* situated just beneath plates *ccc* and the hot water tank G, and pipe connecting the worms with said tanks. 3rd. The purifier C provided with pipes *puu* and perforated plate *u*, in combination with the steam generator and connecting pipe *a*, distillation chamber and a pipe connecting the still and purifier, said connecting pipe entering the purifier above the pipe *p* and below the perforated plate.

No. 15,074. Improvements on Clover Hurlers. *(Perfectionnements aux égrenoirs du trèfle.)*

Alpheus R. Appleman, Washington, D. C., (assignee of Abraham Miller, Hagerstown, Md.) U.S., 8th July, 1882; (extension of patent No. 7616.)

No. 15,075. Improvements on Sewing Machines. *(Perfectionnements aux machines à coudre.)*

John M. Fair, Buffalo, N.Y., (assignee of David Leib, Columbus, Ohio.) U.S., 8th July, 1882; (extension of patent No. 11,441.)

No. 15,076. Machine for making Horse Shoe Nails. *(Machine à faire le clou à cheval.)*

Joseph M. Laughlin, Boston, (assignee of James D. Sumner, of Lexington,) Mass., U.S., 8th July, 1882; (extension of patent No. 7633.)

No. 15,077. Improvements on Curtain Rollers. *(Perfectionnements aux bâtons des rideaux.)*

Walter B. Noyes, Saginaw, Mich., U.S., 10th July, 1882; for 5 years.

Claim.—1st. A curtain roller designed to be operated by means of a side cord and adapted to have an adjustment independent of that secured by the parts operated by said cord. 2nd. The combination, with the curtain roller A and spool B, of the plugs *c d*, springs *f*, flange plate C and screw D. 3rd. The combination, with the recessed roller A, flanged spool B, plug *d*, screw D, spring *f* and flange plate C provided with the hollow hub *h*, the dog G and slotted stud E, of the bracket F. 4th. The combination, with the roller A, of the block H and pin J.

No. 15,078. Improvements on Fastenings for Laces, Cords, etc. *(Perfectionnements aux crochets pour la dentelle, la corde, etc.)*

Thomas Green, Northampton, Eng., 10th July, 1882; for 5 years.

Claim.—1st. The combination of the inner folded end *a* with the outer fold *d* and fixing part *b*, so that the lace or cord is held by the combined spring action of the parts *a* and *b*. 2nd. The several construction of grips with double spring action.

No. 15,079. Improvements on Appliances for Cleansing Elastic tubes used with feed bottles. *(Perfectionnements aux appareils à nettoyer les tubes élastiques des biberons.)*

Thomas Marshall, London, Eng., 10th July, 1882; for 5 years.

Claim.—1st. The appliance shown at figures 1 and 7 for cleansing, by a scraping action, the interior surface of elastic tubes used with babies' feeding bottles. 2nd. The modified form of apparatus or appliance shown at figures 2, 3, 4, 5, 6, of the drawings, with or without sponge.

No. 15,080. Improvements on Carpet Fasteners. *(Perfectionnements aux moyens d'assujétir les tapis.)*

Seth J. Spitler, Greenville, Mich., U.S., 10th July, 1882; for 5 years.

Claim.—In a device for securing or laying carpets composed of a supplemental moulding C provided with studs D and hooks E, the latter of which engage with the carpet while the former engage with loops upon the base board.

No. 15,081. Improvements on Stockings.*(Perfectionnements aux bas.)*

Robert M. Appleton, Lake Village, N. H., U.S., 10th July, 1882; for 5 years.

Claim.—1st. A stocking composed of one continuous thread, knit mainly in plain stitch and provided at the heel with one or more tapering elastic gussets knit in tuck stitch. 2nd. A stocking composed of one continuous thread knit mainly in plain stitch and provided, at the calf of the leg, with one or more tapering elastic gussets knit in tuck stitch. 3rd. A stocking composed of one continuous thread, knit mainly in plain stitch and provided at the heel and calf of the leg with tapering elastic gussets knit in tuck stitch.

No. 15,082. Improvements in Engraving Machines. *(Perfectionnements aux machines à graver.)*

John Earle, Darby, Penn., U.S., 10th July, 1882; for 15 years.

Claim.—1st. The double central bar D or its equivalent, for retaining the diamond tracing point E constantly in line with the pivot centres E³ E⁴. 2nd. The combination, with the double bar D and diamond tracing point E, of the graduated disk E⁵ having a hand for ascertaining the exact position of the diamond point. 3rd. The combination of the bracket E³, arms D⁵ D⁶, graduated arms D⁷ D⁸ and double bar D having tracing points E³ and graduated disk E⁵. 4th. The combination, with the carriage B and circular bed C, of the slide C¹ having spring bracket C² and worm d. 5th. The combination, with the circular bed C, of the adjustable straight edged bar C⁴, and the slide C¹ having spring bracket C² and worm d. 6th. The combination of the table F and circular bed C having a central line H extending longitudinally through said table and bed, for adjusting the positions of the tracing points. 7th. The combination, with the slotted table F, of the straight edged bar F² arranged at right angles with the movements of the carriage B. 8th. The combination, with the table F, of the straight edged bar F² and clamp F³ for holding the strip F³. 9th. The slotted table F having clamps F⁴, straight edged bar F², sliding clamp F⁵ and rubber springs F⁶. 10th. The combination of a reciprocating carriage, a circular bed supported thereon, a slotted table, adjustable straight edged bars arranged at right angles with the line of the movement of the carriage, a bracket supporting a series of pantograph arms, a double bar adapted to be adjusted on the graduated arms of the pantograph frame, tracing and engraving points suspended from said double bar, and a graduated disk for regulating the position of the diamond engraving point.

No. 15,083. Improvements on Thrashing Machines. *(Perfectionnements aux batteuses.)*

Maddison Griffin, Vienna, Ont., 10th July, 1882; for 5 years.

Claim.—1st. The bars F F formed of the strips *a a a*. 2nd. The combination of the bars C C, supports G G and bars F F formed of the strips *a a a*. 3rd. The combination of the bar C C, shafts A A, provided with double cranks *r* and *rs*, and bars F F formed of the strips *a a a*. 4th. The combination of the shafts A A, provided with the double cranks *r* and *rs*, bars C C, connecting rod E, bars F F and spreader L provided with teeth *e e*. 5th. The combination of the shaft A, cog wheels I I, shaft J, cranks *rs rs*, rods O O, bearing J¹, riddle K and hangers *b b*.

No. 15,084. Improvements on Automatic Printing Presses. *(Perfectionnements aux presses automatiques d'imprimerie.)*

William Heckert, Yonkers, N. Y., U.S., 10th July, 1882; for 5 years.

Claim.—1st. A printing press having gears *h b c e t*, shafts *d d*, miter gears *e e*, shafts *f f*, gears *g g t*, in combination with rotating ink arms *s s t*. 2nd. In a printing press the oscillating combined type bed and inking cylinder with connections *5 5 t*, ink arms *s s* and rollers *9 9 t*. 3rd. The connections *5 5 t*, shaft *f f*, gears *e e*, shafts *d d*, in combination with the bevel gears *b b* placed eccentrically to the main shaft D on the wrist studs *4 4*. 4th. The stud *4*, crank *s*, connections *t n*, levers *r r* and pawls *10 11* and *15*, in combination with ratchet wheels *12* and *16*.

No. 15,085. Improvements on Millstone Staffs. *(Perfectionnements aux règles d'éprouve des meules.)*

William Lehmann, Milwaukee, Wis., U.S., 11th July, 1882; for 5 years.

Claim.—1st. The combination, in a bosom staff for dressing mill stones, of the members A and B and hinged to, and adapted with relation to each other. 2nd. The combination of member A and plate I, with member B and plate H. 3rd. The plate H hinged to member B and attached adjustably to member A, in combination with the adjusting mechanism. 4th. In combination with the members A and B, the adjusting screw *k* extending completely through the member A. 5th. The combination of the members A and B, and the adjustable guide arms D B C C.

No. 15,086. Mode and Means for Securing Shifting Bulk Cargo. *(Mode et moyens d'empêcher les cargaisons en grenier de se déplacer.)*

Edgar H. Farrar, New Orleans, La., U.S., 11th July, 1882; for 5 years.

Claim.—1st. The method of packing and preventing the shifting of