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CONTENTS.

INVENTIONS PATENTED.....	I
INDEX OF INVENTIONS.....	XI
INDEX OF PATENTEES.....	XII
ILLUSTRATIONS.....	13

INVENTIONS PATENTED.

No. 8274. Artificial Manure. (*Engrais artificiel.*)
Stephen P. Locke, Waterville, Vt., U.S., 27th December, 1877, for 5 years.

Claim.—A compound composed of stone lime (or quicklime), common salt and wood ashes, prepared with water and in the proportions described.

No. 8275. Improvements on Reaping Machines. (*Perfectionnements aux moissonneuses.*)

David Maxwell, Paris, Ont., 4th January, 1878, for 5 years.

Claim.—1st. The spur wheel C having recessed hub D and ratchet box wheel E, cast integrally and keyed on the driving shaft B for transmitting power to the knife and rake; 2nd. In combination with the spur wheel C and ratchet wheel E, the rod H passing through the hub I of driving wheel A, and carrying pawl F and spring J; 3rd. The combination with the shaft B of the drive wheel A, spur and ratchet wheels C E, pawl F, rod H and a spring J; 4th. The crank foot rest Q adjustable on the shaft M; 5th. The tripping lever R fulcrumed to the tilting lever O for operation.

No. 8276. Improvements on Camp Bedsteads. (*Perfectionnements aux couchettes de camps.*)

Richard A. Bradley, Ottawa, Ont., 4th January, 1878, for 5 years.

Claim.—1st. A camp bedstead constructed of rails A A divided at the middle, and hinged by T-plates B to cross legs C, C, and by L-plates E, near the ends to crossed legs E E F F, said legs formed with a zig-zag at their intersection and halved and pivoted, whereby the several parts will fold and close compactly together; 2nd. The cords M attached to the legs C, and the rails A.

No. 8277. Improvements on Vehicle Springs and Axles. (*Perfectionnements aux ressorts et aux essieux des voitures.*)

Samuel W. Ludlow, Cincinnati, Ohio, U.S., 4th January, 1878, for 5 years.

Claim.—1st. In combination with the axle ends A A and rigid bar B, the sockets D for receiving the ends of the spring or guide bar, or both; 2nd. The combination of the axle ends A A, rigid bar B, spring C, sockets D and guide bar F, connected and operating as specified; 3rd. In combination with the axle ends A A, spring C and bar B, having sockets D and links E E.

No. 8278. Improvements on Machines for Grinding Harvester Knives. (*Perfectionnements aux machines à aiguiser les couteaux des moissonneuses.*)

Frank M. Wood, Worcester, Mass., U.S., 4th January, 1878, for 5 years.

Claim.—1st. The combination of the table H, slide piece I having slotted arms I, pivoted part J and holding device G; 2nd. The holding device G consisting of the combination of the parts, piece G^h having slot k, clamps g h and k, thumb screws a, rod e and eyes f; 3rd. The combination of the emery wheel C, holding device G and pivoted plate J; 4th. The table H, sliding piece I, slotted arms I, screws e and emery wheel C; 5th. The combination of the table H, slide piece I, pivoted part J and holding device G; 6th. The combination of the table H, slide piece I and pivoted part J.

No. 8279. Improvement on Horse Nail Machines. (*Perfectionnement des machines à clou à cheval.*)

John E. Wheeler, Lynn, David B. Loring and Frederick W. Coy, Boston, Mass., U.S., 4th January, 1878, for 5 years.

Claim.—1st. Automatic guides arranged to operate between the tunnel and the rolls; 2nd. The combination of stationary tunnel or feeding chute B,

automatic guides arranged to operate between said chute and the rolls or revolving dies; 3rd. The combination of the guides B₁ B₂, lever b₁, spring b₁ and pin b₂ with the pin c; 4th. The combination of the feed tunnel provided with the guides B₁ B₂ and regulator b₄, with the revolving dies A₁; 5th. The combination of a delivery tunnel F, possessing adjustability in relation to the revolving dies, with the spring D arranged to project upward from the tunnel, and whose end operates as a cut-off in preventing the feeding of blanks to the roll; 6th. The delivery tunnel F, possessing vertical adjustability in relation to the revolving dies A₁; 7th. The delivery tunnel F, in combination with the ways F₁, and a frictional pressure exerted upon the side thereof, whereby adjustability is provided the tunnel; 8th. The way F₁, recessed and provided with a movable plate f₁, with the spring f and bolt f₃; 9th. A delivery tunnel having a removable front plate; 10th. The combination of the revolving dies with the stops, for stripping the dies of blanks lodged therein; 11th. The feed tunnel B, provided with an inclined chute B₃ opening into the same; 12th. The combination of a feed tunnel provided with guides and regulator, the revolving dies A₁, the adjustable tunnel F and the spring f₂; 13th. The combination of the disk C provided with pin c with the lever b₄ pivoted as shown, spring c₁ and lever b₁ arranged in relation to each other, whereby the regulator and guides are successively operated; 14th. The removable tube F, for holding blanks to be fed to the dies placed above an opening into the feed tunnel; 15th. As an attachment to horse shoe nail machines, the removable tube E, platform E₁ and the reciprocating plate E₂, operated to successively shoot the base blank from the pile in the box into the inclined chute; 16th. The combination of the disk C, provided with the cam projections c₁, with the lever E₃, whereby the plate is reciprocated in the base of the removable tube E in platform E₁; 17th. The rolls consisting of a central disc, provided with projecting central sections and outwards arranged with recesses fitting over the said projections; 18th. The combination of an automatic feeding device, revolving dies and an automatic delivery mechanism; 19th. The combination of a centering device arranged immediately over the converging point of the dies, to guide and centre blanks as they are drawn into the dies, with revolving dies for shaping said blanks; 20th. In combination with a removable tube for holding blanks, a yielding follower arranged to support the blanks in the tube, while the same is being filled, and to gradually lower or be forced downward about the thickness of a blank with each blank deposited in the tube; 21st. In combination with removable conveyer for holding and feeding blanks, the mechanism described, the same consisting of a follower provided with a means for lifting the same and for regulating its descent; 22nd. The combination of a follower for the support of blanks, arranged to yield under pressure, with suitable alarm mechanism, for denoting that the tube is almost filled with blanks; 23rd. As an attachment to punching machine for filling removable conveyer with blanks, the pinion 4 and shaft 6, having a bearing in brackets 5, projecting from the casing 3, and provided with a thumb screw and handle 7, with the follower 1, recessed and provided with the rack 2 and stop 12, all arranged under the bed plate of the punching machine to operate the follower vertically on a line with the die; 24th. The combination of the follower, recessed as shown, with the bent lever 13 pivoted to the casing 3, pin 14 projecting through slot 15 and spring 16; 25th. The combination of the casing 3 and platform g, a mechanism for lifting a follower and restraining the same from descent except under pressure, an alarm mechanism and suitable stops with a removable conveyer for receiving and holding blanks from a punching machine and feeding the same, all operating to automatically receive and lodge said blanks in the tube E; 26th. A removable conveyer for receiving, holding and feeding blanks, the open tube E, provided at its base with the rests g upon its sides with the restraining spring g₁, and upon its top with the swinging bar g₂; 27th. A metal blank for horse shoe nails consisting of a shank having head forming portions on only two sides thereof, and of uniform thickness therewith.

No. 8280. Improvements on Abdominal Supporters. (*Perfectionnements aux suspensoirs abdominaux.*)

Ella M. Holton and Thomas Etches, Jackson, Mich., U.S., 4th January, 1878, for 5 years.

Claim.—1st. The extension pieces B combined with an abdominal supporter; 2nd. The side lacings constructed with angular sides; 3rd. The combination of the front piece D, back pieces E, adjustable side lacings, elastic gorings A and the extension pieces B.

No. 8281. Machine for Cutting Cloth, Paper and Leather. (*Machine à tailler le drap, le papier et le cuir.*)

Mary E. Sinnott, Bakersfield, Vt., U.S., 4th January, 1878, for 5 years.