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APTIL, 1807-1 THE CANADIAN PAT fingers do, do pivoted to said arm and provided with backwardly-presser foot and its bar, of the lever Ar having a factible extension or spring bearing on a projection on the presser bar, and forcing the latter downwardly with a yielding pressure, and means for operating said lever, as set forth. 14th. The combination, with the presser foot and its bar, of the lever Ar having a factible extension or spring bearing against the said projection ons the presser bar, and a projection as Gr arranged to act on the lever Fr, as set forth. 15th. The combination, with the presser foot and its bar having the pro-jection Er, of the lever Fr adapted to bear against a projection on the presser bar, and the lever Ar having the spring Dr bearing on the upper side of said projection, and the adlustable stud or serve Gr, whereby the lever Fr is operated to lift the presser foot a distance governed by the adjustment of said serve, as set forth. 15th. In a button-fastening machine, the combination of a work-support, but-ton-fastening mechanism, substantially as described. The schwork-support, a button reservoir and raceway, a joint or proved connection between said fired arm and the reservoir, and macway over the fastening mechanism, substantially as described. whereby said reservoir and raceway are oscillated as set forth. 17th. In a button-fastening mechanism, substantially as described, whereby said reservoir and raceway are oscillated, as set forth. 18th. The combination of the reservoir and raceway connected to said arm by a double joint comprising two juvits at right angles in either or both pivots, and mechanism substantially as described, whereby said reservoir and raceway are oscillated, as set forth. 18th. The combination of the reservoir and raceway connecting to a faxed arm above the work-support, a button faxeway are oscillated, as set forth. 18th. The combination of the reservoir and raceway are oscillated, as faxed arm above the work-support, ab the sa the gate, as set torkin. Zath. The combination of the reservoir and raceway mounted to scillate as described, a connecting rod pivot-ally secured to said raceway mechanism, whereby said rod is recip-rocated and the raceway thereby oscillated, and means substantially as described, whereby the distance between the raceway and the end of the connecting rod that is connected to the operating mechanism of said rod may be varied, as set forth.

#### No. 26,174. Hot Water Heating Apparatus. (Calorifère à eau.)

William Britton and Joseph Brunet, Montreal, Que., 7th March, 1887; 5 years.

Réclame.—Un fourneau on enveloppe creuse c, avec des serpentins s, s, en combinaison, avec les tuyaux k, k et le tuyaux  $h^{I}$ , tout fonc-tionnement ensemble tel que décrit et pour les fins indiguées.

## No. 26,175. Lamp Burner using Circular Wicks. (Bec de lampe pour Mèches Circulaires.)

William H. Harvey, Toronto, Ont., 9th March, 1887; 5 years.

William H. Harvey, foronto, out, stat March, lost, o years. Claim.—Ist. The improvements in the burner described, whereby the stratum of air surrounding the perforations a is always keyt cool, substantially as and for the purpose specified. 2nd. The improve-ments in the burner described, consisting of the peculiar form of per-forated air chamber in relation to the perforated disc, substantially as and for the purpose specified. 3rd. A corrugated ring (n inserted into the circular wick H to hold it in the wick-rack I, substantially as eard for the purpose specified. as and for the purpose specified.

## No. 26,176. Electrical Appliance for Body Wear. (Bourrelet électrique hygiénique.)

James Charles, Richmond, Ind., U.S., 9th March, 1887; 5 years Claim.-1st. The combination, with two or more battery cells located at different parts of the body, and having one element in electric contact therewith, of a common electrode connected by a conductor with the other element, and located at a seperate portion of the body, and means for holding the batteries and electrode in place, substantially as set forth 2nd. An electrode to be applied to a portion of the body, the same consisting of two plates of similar

metal, separated by a material capable of absorbing liquids, the inner plate being perforated, substantially as and for the purpose set forth. 3rd. In an electric battery designed to be applied to the human body, a copper plate, a larger perforated zinc plate, and a piece of cloth or other absorbent material between the said plates, the piece of cloth or equivalent material extending outside the two plates, and being held between the edge of the copper plate and the bent-over edge of the zinc plate, substantially as set forth.

# No. 26,177. Screw-Cutting Machine.

(Machine à fileter les Vis.)

Thomas B. Smith, West Brunswick, Eng., 9th March, 1887; 5 years. Inomas b. Smith, west branswick, Eng., Sin march, 1887; J years. Claim.-Ist. The improvements in screw-cuting machines, of three, four or more moving cutters brought to bear simultaneously upon the screw-blank or material, as and for the purpose substan-tially as set forth. 2nd. In wood screw-cuting machinery, the face-plate, slides and cutter holders, in combination with the pivoted levers operated by a spring and wedge motion, substantially as herein set forth. 3rd. In wood screw-cutting machinery, a face-plate, and slide tool holders mounted thereon, in combination with and operated by an external wedge-piece or cap, substantially as herein set forth.

#### No. 26,178. Paper Punch.

(Emporte-pièce à papier.)

#### Samuel H. Fish, Hinsdale, Ill., U.S., 9th March, 1887; 5 years.

Claim.-1st. The combination, with the punches mounted upon the cross-bar carried by the plunger, of a spring for holding the plunger in its elevated position, and three guides, one in the standard of the in its elevated position, and three guides, one in the standard of the frame, and one in each of the arms or lugs, whereby the pnnches are directed through the dies, as described. 2nd. The combination, with the cross-bar, and the plunger supported by its bearing in the stan-dard of the frame, of the punches or cutters respectively at the dif-ferect ends of the cross-bar, the cutting edges of said punches being of the form shown, one lip or point of each being longer than the other lip or point, the lugs with openings or guides surrounding the said cutting edges and the dies w in the plate below, substantialy as described. described.

#### No. 26,179. Harrow. (Herse.)

Henry W. Alshouse, Custer, Ind., U.S., 9th March, 1887; 5 years.

Claim-lst. In a barrow, the combination of the sections hinged together, and the spring-arms I secured at their lower ends to the meeting edges of the harrow-sections, and extending upwardly from the same, and the bolts K connecting the upper ends of the said spring-arms together, substantially as described. 2nd. In a harrow, the combination, with the flexible sectional harrow haring its sec-tions hinged together, of the spring-arms I fitted at their lower ends on one side of the hinge-point of the sections, and having their upper ends hinged or pivoted together.

### No. 26,180. Hanger for Electric Lamps.

(Support de Lampe Electrique.)

The Royal Electric Company (assignee of Frederick Thomson), Mon-treal, Que., 9th March, 1887; 5 years.

treal, Que., 9th March, 1837; 5 years. *Claim.*—Ist. A hanger for an electric lamp, consisting of a bracket fixed to a support, and an arm pivoted thereto, forming an exten-sion thereof, and carrying the electrical lamp, all substantially as and for the purposes set forth. 2nd. The combination, in an electric lamp hanger, of a bracket fixed to a support, an extension bracket pivoted to same, and carrying on one end the electric lamp and on the other the counterpoise, all substantially as herein set forth. 3rd. In an electric lamp hanger, a fixed bracket carrying a pivoted exten-sion, and formed of an upper straight arm and a lower bent arm, both forked, and having their ends curved so as to fit pole, all as herein set forth. 4th. The combination, in an electric lamp hanger, of a bracket arranged to support an extension holding an electric lamp, and catch on sid bracket to hold extension in place, all sub-stantially as described. 5th. In an electric lamp hanger, a fixed bracket carrying m extension pivoted to it, the upper arm of said fixed bracket having its inner end threaded and passed through post, and two sleeved clips on same and secured at any desired point by jam nuts, all substantially as herein described and for the purposes set forth.

## No. 26,181. Elevator Draining Plough.

(Charrus de Drainage à Chaine Sans fin.)

Rachel A. Mason (assignee of Allen Mason), Paisley, Ont., 9th March, 1887; 5 years.

Rechel A. Mason (assigned of Anten Mason), raisley, Out., sen March, 1887; 5 years. Claim.—Ist. A draining plough, provided with a chain elevator, and having the sole A formed in two or more parts fitting into one another, for the purpose herein set forth. 2nd. The combination. in a draining plough, of the sloping elevator carrying wheel, and top scraper herein specified and for the purpose set forth. 3rd. In a draining plow, provided with a chain or belt elevator, a carrying wheel to support and operate said elevator, oomposed of the two disks cr. dr. the morticed ring e! and moving cogs 7t, and journalled in the pivoted arm F, substantially as described. 4th. The stationary disk F1, placed inside the morticed ring c, held by the hand-lever l, and having formed in it the eccentric groove gr by which the movement of the cogs /i is controlled, substantially in the manner described. 5th. The combination, in a draining plough, of a sloping elevator composed of the pivoted arm B, chain C and pulleys at and a, with a top scraper composed of the grooved pulleys L and M, belt O pro-vided with the spring or hinged hoes be z scraper q, and the arm N pivoted to the plough beam, substantially as shown and described. Sth. The combination, in a draining plough, of the above described sloping elevator and top scraper, with the adjustable conlters R and R1, gauge wheel S, bar T, chain m, pulley v and ratchet-wheel w, substantially as shown and for the purpose set forth.