stantially as and for the purpose set forth. 6th. The combination of the plate metal baling press tube or case, with the roller and the case of projections from the case connecting the same, for the pur-pose set forth.

No. 29,076. Straw-Burning Attachment to Stoves. (Polle consumant la paille.)

Thomas J. McBride, Winnipeg, Man., 2nd May, 1883; 5 years.

Thomas J. McBride, Winnipeg, Man., 2nd May, 1883; 5 years.

Claim.—1st. The combination, with the combustion chamber having a collar B at the smoke outlet, of the slotted angular plates C. D., and E. F. and G. H., bolted adjustably togother and to said collar, to suit the front opening of a stove, a set forth. 2nd. In a straw-burning attachment, a feed or fuel drum provided with a pipe or duet L, connecting with the upper part, and discharging downwardly into the combustion chamber or its smoke outlet, as set forth. 3rd. In a straw-burning attachment, the draft inlet having a boxing M. provided with an internal valve N to close by pressure of gas in the combustion chamber, when stronger than the indraft, as set forth. 4th. The combination, with the feed drum, of the forked lever O and rack P. for lifting fuel out of the combustion clamber, and retaining it in said feed drum, when combustion of fuel is not desired. 5th. In the heroin described straw-burning attachment, the combustion chamber A provided with a dumping door R ir the bottom, and having an outwardly attached ash receptacle, as set forth. 6th. A straw-burning a collar B at the smoke outlet, and adjustable angular plates C, D. E. F., G, H at the top and sides of said collar, the bottom of said chamber provided with a door R and ash receptacle J, and an automatic valve N within a boxing M, enclosing the indraft opening, a fuel drum K seated on top of said combustion chamber, and provided with a forked lever O extending downward into the combustion chamber, as set forth 7th. The ring T, having an annular groove at top and bottom, in combination with the combustion chamber A and fuel drum M, in combination with the combustion chamber A and fuel drum and the sum of the forth.

No. 29.077. Stove for Burning Straw, etc.

No. 29,077. Stove for Burning Straw, etc.

(Porle consumant la paille, etc.)

Thomas J. McBride, Winnipeg, Man., 2nd May, 1888; 5 years.

Thomas J. McBride, Winnipeg, Man., 2nd May, 1883; 5 years. Claim.—1st. A stove consisting of an ovon 2, a flue 9 surrounding said oven, a fire-box 3 in said flue, a smoke outlet 8 over said fire-box and in connection with said flue, a combustion chamber 14 and a straw fuel reservoir above said combustion chamber, substantially as set forth. 2nd. A stove having a fuel reservoir 15 over a combustion chamber 14, a flue therefrom leading around an oven, said combustion chamber provided with bars 25 to support straw fuel while being burned, a riske 18 to clear the fire, grates 20 below the rail, a draft entrance 15 opposite to the smoke outlet, an ash receptacle 26 and with or without a fuel receptacle 24, as set forth. 3rd. A stove for burning straw fuel, having a removable feed receptacle 24, within a reservoir 15, seated above a combustion chamber, in connection with the throat of a flue surrounding an oven, substantially as set forth. 4th. In combination with the combustion chamber 14, a rake 18 to clear ashes from the straw fuel while being burned, and a sliding grate 20, for the purposes sot forth. 5th. In combination with a stove, a fuel reservoir 15, provided with doors c, and located above a combustion chamber 14 to feed fuel thereto, as set forth.

No. 29,078. Feed and Water Tray for Chickens. (Plateau pour la nourriture et l'eau des poulets.)

Henry J. Mouzon, Bamberg, S.C., U.S., 2nd May, 1888; 5 years.

Honry J. Mouzon, Hamborg, S.C., U.S., 2nd May, 1883; 5 years. Claim.—1st. The heroin shown and described cap composed of a single piece of sheet material bent to form sides which are provided with a series of vertical openings, and having ends connecting the sides and closing them in, substantially as and for the purpose specified. 2nd. The heroin shown and described poultry feeding device composed of the shallow tray A and the cap, consisting of the middle portion made of a single piece of sheet material bent to form sides, which have vertical openings and extensions resting upon the bottom of the tray, and the ends which close in the sides and rest on the ends of the tray, substantially as specified.

No. 29,079. Felt Sock Machine.

(Machine à chaussettes de feutre.)

David Spiers, (assignee of Walter Glasby,) Galt, Unt., 3rd May, 1888; 5 years.

5 years.

Claim.—1st. A tube roller B having a tapored end, in combination with the auxiliary pressure roller F, carried on the shaft E, set at an angle parallel with the tapered end of the roller B, substantially as and for the purpose specified 2nd. A tube roller B having a tapored end, in combination with the auxiliary pressure roller F, carried on the shaft E, set at an angle parallel with the tapored end of the roller B, and of the pin G, located substantially as and for the purpose specified. 3rd. A feed roller H, located between the roller A and tapered portion of the tube roller B, in combination with the said tapered tube roller B and pressure rollers C and F, arranged and operating substantially as and for the purpose specified. 4th. A feed roller H, located between the roller A and tapored portion of the tube roller B, in combination with the said tapored upte roller B and pressure rollers C and F, and a pin G, arranged and operating substantially as and for the purpose specified.

No. 29,080. Sleigh or Cutter Runner.

(Patin de traineau.)

Richard H. Jones, Plattsville, and John Avery, Clinton, Ont., 3rd May, 1888; 5 years.

Claim.—1st. A sleigh or cutter runner R, in combination with a strengthening bar, brace or flange S, substantially as shown and described and for the purpose specified. 2nd. The sleigh or cutter run-

nors R. R. having a bar, brace or flange S, in combination with the cross-bars H II, substantially as shown and described and for the purposes specified.

No. 28,081. Storage Battery.

(Batterie d'emmagasinage.

(Ballerie Remmagasinage.

Grosvenor P. Lowrey, (assignee of Charles D. P. Gibson), New York, N.Y., U.S., 3rd May 1839; 5 years.

Claim.—1st. A shell, cell or capsule filled with the oxydized active material of a storage battery plate. 2nd. A shell, cell or capsule filled with the oxydizable active material of a storage battery plate. 3rd. A storage battery plate having openings or perforations into which shells or capsules filled with active material are unserted and seoured. 4th The method of forming storage battery plates, which consists in, first perforating the same, then inserting shells or capsules filled with active material into the perforations, interlecking the plates and capsules by pressure, and finally subjecting the plates to the action of an electric current in a suitable electrolyte. 5th. A storage battery plate, the active material of which 1. Indeed within cells or openings formed in said plate and partly covered by perting of the metallic body of the plate, whereby the active material is held in place and also is kept in contact with the electrolyte.

No. 29,082. Lasting Machine.

(Machine & enformer.)

Charles B. Lancaster, (assignee of Charles H. Kelley.) Boston, Mass., U.S., 3rd May, 1888; 5 years.

Charles B. Lancaster, (assignee of Charles H. Kelley.) Boston, Mass., U.S., 3rd May, 1888; 5 years.

Claim.—1st. In a lasting machine, the combination of the four-square system of shafts and bevelled gearing B. B., B., herein described, the four cams D. D., D., D. one mounted upon each of said shafts, and the four sliding boxes E. E. E. for carrying and operating the heel, toe and side lasting plates respectively, all substantially as heroin set forth. 2nd. In a lasting machine, the combination of the four-square system of shafts and bevelled gearing B. B. B., heroin described, the four cams D. D. D., one mounted upon each of said shafts, and the four sliding boxes E. E. E., for carrying and operating the heel, toe and side lasting plates respectively, each of said boxes being provided with adjustable bearings c., for the purpose herein set forth 3rd. In a lasting machine, the improved gripping and releasing device herein described, consisting of the pivoted jaws H. H., the links h, h and the operating rod I. all substantially as set forth. 4th. In a gripping device for lasting machines, the combination, with the plate F. of the hollow shell f, the pivoted jaws II, H, links h, h and operating rod I, all substantially as set forth. Sth. In the gripping device of a lasting machine, the combination, with the upper and lower plates G. F. of the post L, secured to the lower plate and passing through the upper plate, and the whede cam K, formed in two parts,one fixed at the post and the other adapted to turn around the same upon the plate G. All substantially as set forth. 6th. In a lasting machine, the combination, with inwardly sliding lasting plates, of springs, substantially as described, extending downwardly on the inner side and below the avielding grip against the inward pressure of the slides, all substantially as set forth. 8th. In a lasting machine, the combination, with inwardly sliding lasting plates, of springs, substantially as described, extending downwardly on the inner side and below the diplote of t

No. 29,083. Argand Lamp. (Lampe & Argand.)

Frank Rhind, Meriden, Conn., and Charles S. Upton, New York, N.Y., U.S., 3rd May, 1888; 5 years.

Frank Rhind, Meriden, Conn., and Charles S. Upton, New York, N.Y., U.S., 3rd May, 1883; 5 years.

Claim.—1st. A cylindrical wick holder having an inner and an outer shell with a downwardly extending portion, as shown in Fig. 3, having the inner and outer shells connected to each other, as at z, to form a continuous cover for the wick at the sides. 2nd. A cylindrical wick holder having downwardly extending portions with openings for the wick, as shown and described. 3rd. A double shell cylindrical wick holder having a continuous opening at the top, and open and closed portions at the bottom. 4th. A double shell cylindrical wick holder having a semi-cylindrical extension at the bottom, the edges of the two shells being joined at the sides of the extension for the purpose of bracing the parts and proventing the rack from receding from the pinion wheel. 5th. A cylindrical and double shell wick holder having one or more extensions, or isolated portions, to accommodate the corresponding portions of the cylindrical wick. 6th A cylindrical wick, and closed portions where the wick is cut away for the purpose of protecting the wick. 7th. The double shell cylindrical wick holder having a continuous casing inside and outside of the wick, and closed portions where the wick is cut away for the purpose of protecting the wick. 7th. The double shell cylindrical wick holder having the parts braced against cach other, as shown and described, and the outer shell being provided with friction teeth for holding and securing the wick. 8th. The combination of the damp burner having the pinion wheel, arranged substantially as shown and described. 9th. The combination of the lamp burner having the pinion wheel, arranged substantially as shown and for the purposes set forth. 11th. A circular and cylindrical wick for argand burners, the said wick forming a single piece of material and having out away portions stitched at the edges to protect the material from raveling, as and for the purposes set forth. 12th The lamp burner having the cent set forth.