on the lever K, and the bell-crank lever M pivoted to the hanger L and connected to the lever K by the rod R, the said levers K and M engaging at their outer ends with racks S and guards T, all constructed and arranged substantially in the manner shown and described and for the purpose specified.

No. 27,184. Windmill. (Moulin à vent.)

lpheus A. Kinney, Ravenna, Neb., U.S., 18th July, 1887; 5 years. Claim.—Ist. In a windmill, the combination of a frame and two sets of vanes, the front set being at right angles to the face of the wheel, and the rear set being at an angle to the front set and having their front edges in a line with the rear edges of the front set. 2nd. In a windmill, the combination of radiating arms upon the wheel-In a windimill, the combination of radiating arms upon the wheel-shaft, wheel sections of vanes secured to cross-bars provided with trunnions at their ends, pivoted in lips upon the arms, a sliding ad-justable sleeve upon the wheel shaft, blocks pivoted at their ends between the inner ends of the radiating arms, and having rods slid-ing in perforations in the middle of the blocks, and pivoted to the sleeve with their inner ends, and arms pivoted with their inner ends to the outer ends of the rods, and droft the blocks, and pivoted to the sleeve with their inner ends, and arms pivoted with their inner ends to the outer ends of the rods, and arms pivoted with their liner ends to the outer ends of the sections, as and for the purpose shown and set forth. 3rd. In a windmill having a downwardly-projecting sleeve journalled in the supporting frame and formed with a vertical slot in its side, the combination of a governing rod having a headed bolt projecting through and sliding in the slot, a collar upon the sleeve and having a groove in its inner side for the head of the bolt, and a handle for sliding it up and down upon the sleeve, as and for the purpose shown and set forth.

No. 27,185. Alarm for Doors, etc.

(Timbre pour portes, etc.)

Nahum J. Busby, Maplewood, Mass., U.S., 18th July, 1887; 5 years. C'arim.-Ist. In a door-alarm, the combination of an ordinary bell-striking mechanism having the usual main-spring and arbor there-for, and a take-up spring secured near such arbor, and the bell-pull wire secured to such take-up spring, with an intermediate connection connecting said take-up spring is partially wound, as described. 2nd. The combination, with the frame G and the main take-up spring and its shaft arraanged in such frame, as described. and with the bell-hammer operative main-spring and train also arranged in said frame, and the intermediate connection connecting the main-spring applied to the main take-up spring, of the auxiliary take-up spring applied to the main take-up shaft and to the said frame, substan-tially as set forth. 3rd. The combination, with the ball, its hammer and the operating train, of the latter consisting of the main-spring, its arbor, the ratchet wheel fixed and the gear revoluble on such arbor, the pawl and its spring applied to such gear, the lantern-pinion and its shaft, arthe up for the staft, of the antimer mark is thaft, and the pallets and their shaft, of the attenter with the such arbor, the connecting the latter with the said arbor, and the link or rod connecting the latter with the said arm, all being substan-tially and to operate as represented. Nahum J. Busby, Maplewood, Mass., U.S., 18th July, 1887; 5 years. tially and to operate as represented.

No. 27,186. Tube Cleaner. (Nettoyeur de tuyau)

George Wishart, Montreal, Que., 18th July, 1887; 5 years.

George Wishart, Montreal, Que, 16th July, 1857; 5 years. Claim.—1st. The combination, with the flexible tube B connected to boiler, of branch A and head C with stopped end E and shallow spiral passages Et, all substantially as herein set forth and for the purposes described. 2nd. The combination, with the branch A, of the head D, with hood D1 and pipe D², and outlets from same, all as herein set forth and for the purposes described. 3rd. In combination, with the branch A, the head C formed of head proper D, with hood D1 and pipe D², and the stopper E with spiral recessed outlets E₁, E₁, all substantially as herein described and for the purposes set forth.

No. 27,187. Compound for Making Bricks, etc. (Composé pour faire les briques, etc.)

James P. Perkins Pullman, Ill., U.S., 18th July, 1887: 5 years

Claim.—The within-described compound for the manufacture of bricks and other burned products of elay, consisting of a moist mix-ture of elay and paraffine distillate, otherwise known as "interme-diate oil," substantially as and for the purposes set forth.

No. 27,188. Gate Latch. (Loquet de barrière.)

Theodore Martin, Wallaceburg, Ont., 18th July, 1887; 5 years.

Incodore Martin, Wallaceburg, Ont., 18th July, 1887; 5 years. Claim.-1st. In a gate latch of the kind described, the combination of a latch slidingly secured to the gate frame, a spring carrying the said latch and adjustable connection between the latch and spring, substantially as described. 2nd. In a gate latch, the combination of the latch B, slidingly secured to the gate, the spring bar A, se-cured upon the inside of the frame of the gate, and adjustable con-nection between the free end of the spring and the rear end of the latch, substantially as described. 3rd. In a gate latch, the combi-nation of the sliding latch B, having adjusting notches d, e, f, the spring A notched upon its free end to adjustably engage therewith, and a rocking plate removably attached to the gate above the latch, substantially as described.

No. 27,189. Machinery for the Manufacture and Application of Angle Clamps for Uniting the Corners of Cardboard and other Boxes. (Machine de fabrication et d'application des serre-joints pour assujétir les angles des boîtes de carton et autres.

Henry Campbell, London, Eng., 18th July, 1887; 5 years.

Chaim.—Ist. The improved machinery for the manufacture and application of angle clamps for uniting the corners of cardboard and other boxes, consisting of mechanism for cutting out or shaping the clamps on the edges of a strip of metal, for bending the said strip of metal near the said strip of metal and operating substantially as hereinbefore described and illustrated in the drawings hereto and the said strip of metal and the said strip of metal for the drawing to the said strip of metal and operating substantially as hereinbefore described and illustrated in the drawings hereto and the said strip of metal provided and operating substantially as the claws at the edges of a strip of metal and the said strip of the manufacture of angle clamps for uniting the corners of cardboard and other boxes, mechanism for cuting of the angle side strip of the said strip of metal and the said strip of metal and the said strip of the said strip of the said strip of metal and the said strip of the said strip

No. 27,190. Thermostat. (Thermostat.)

Lawson B. Stone, Marblehead, Mass., U. S., 18th July, 1887; 5 vears.

years. Claim.—1st. In combination with the case and the Bourdon spring, the unencumbered end of which forms one terminal of an electric circuit, the spring-netuated insulated terminal adjustable with re-spect to said Bourdon spring, whereby the thermal degree of alarm may be regulated, substantially as stated. 2nd. The combination, with the thermostat, substantially as herein described, of the oil-cup and its feed-duct. the latter serving by convection of heat to operate a Bourbon spring united therewith, all co-operating as stated. 3rd. In combination with post E and case C, the Bourdon spring c attached to said post, a spring f attached to said case, a contact e carried by the latter spring and an adjusting screw s acting against spring f, substantially as set forth. 3th. A Bourbon spring c, an ad-justable terminal e opposed thereto, an insulating sleeve surrounding said terminal, a spring to which said sleeve is attached, and an ad-justing screw acting against the latter spring to adjust the terminal, substantially as set forth.

No. 27,191. Art or Process of Blowing Glass. (Manière de souffler le verre.)

Richard E. Donovan, Francis Hazlett and James Johnston, Dublin, Ireland, 18th July, 1887; 5 years.

Claim.—1st. In apparatus for blowing glass, the combination formed by the chamber a, the pipe or tube b, piston e and hollow rod or plunger d, with the tubular cap f for providing for the free ingress and egress of air, and for the repetition of the stroke of the piston, in the manner substantially as herein specified and set forth. 2nd. In apparatus for blowing glass, the combination formed by the chamber a, the pipe or tube b, the pieton e and the solid piston rod dt, with the arrangement for allowing the free ingress and egress of air, in the manner substantially as illustrated in Fig. 4 of accompany ing drawings. ing drawings.