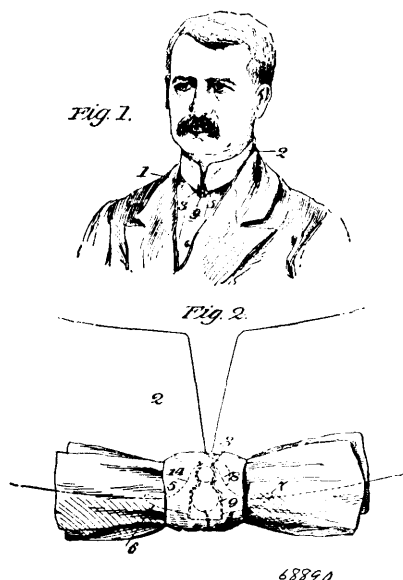


ingress of the molten metal into the mould cavity, said discs being journaled upon a fixed frame and having means of adjustment, a crucible F, an ingate block G, carried by said crucible, having dam 83, said ingate block and dam being positioned so as to register with said mould cavity, a pump carried by said crucible for projecting the molten metal into said mould cavity, a heater I, adjoining the crucible, an ejector H, corresponding in thickness and shape respectively with the thickness and curvature of the mould, mounted on a stationary frame and so arranged as to eject the cast strip from the mould, as shown, and for the purposes specified.

No. 68,890. Necktie Supporter. (*Support de cravate.*)



David Edgar Lantz, Farmer City, Illinois, U.S.A., 4th October, 1900; 6 years. (Filed 25th August, 1900.)

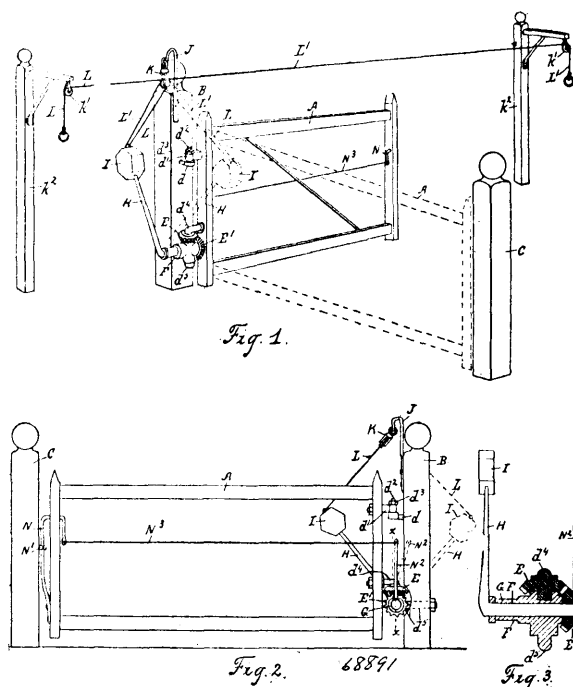
Claim.—1st. A necktie supporter comprising a slotted plate curved to conform to the curvature of a collar with its lower corners extended and curved backward in greater degree than its main portion to form prongs, as and for the purpose specified. 2nd. A necktie supporter comprising a slotted plate curved to conform to the curvature of a collar with its lower ends or corners extended and curved back to form prongs, and the upper edge of the plate curved convexly, as and for the purpose specified. 3rd. A necktie supporter comprising a plate curved to conform to the curvature of a collar and having a vertical button hole slot, the lower corners being extended and curved backward to form prongs, and its upper edge curved convexly and the side edges extending from the extremities of the prongs to said convexly curved portion concavely to give a wedge-like form to the prongs, as shown and described. 4th. A necktie supporter comprising a slotted plate provided with spring barbs extending over its face opposite the slot and with plate securing prongs extending in opposite directions as the base of the plate and bent back into divergent relation. 5th. A necktie supporter comprising a slotted plate having a pair of crimped spring barbs extending over its face and inclined with respect thereto, a divergent plate, securing prongs extending from the opposite sides of the base of the plate and designed to engage the lower edge of the collar to prevent riding up or twisting of the tie. 6th. A necktie supporter comprising a plate of substantially triangular form, provided with a vertical slot enlarged at its lower end for the reception of a button head, a flange extending from the base of the plate directly below the slot to form a seat, a pair of crimped spring barbs connected at their lower ends by a transverse bar engaging said seat, and a pair of plate securing prongs extending from the opposite sides of the plate at its base and bent back into divergent relation to slip under the lower edge of the collar to prevent the tie from riding up or twisting.

No. 68,891. Gate. (*Barrière.*)

James L. McFarlane and Thomas C. McFarlane, both of Ailsa Craig, Ontario, Canada, 4th October, 1900; 6 years. (Filed 6th October, 1890.)

Claim.—1st. An attachment to a gate post carrying a socket bearing or boxing, a shaft supported by and rotating perfectly free in said bearing, a bevelled gear wheel secured to one end and an arm to the other end of said shaft, a weight secured to said arm and means for adjusting said weight, in combination with a gate and a bevelled gear wheel secured to said gate and engaging with the bevelled gear wheel on the shaft, substantially as and for the purpose set forth. 2nd. An attachment to a gate post carrying a socket

bearing or boxing, a shaft supported by and rotating perfectly free in said bearing, a bevelled gear wheel secured to one end and an arm



to the other end of said shaft, a weight secured to said arm, a rope or ropes extending over a pulley for adjusting said weight, and means for supporting said pulley and the outer end of said rope or ropes, in combination with a gate and a bevelled gear wheel secured to said gate and engaging with the bevelled gear wheel on the shaft, substantially as and for the purpose set forth. 3rd. An attachment to a gate post, carrying a socket bearing or boxing, a shaft supported by and rotating perfectly free in said bearing, a bevelled gear wheel secured to one end and an arm to the other end of said shaft, a weight secured to said arm, a rope or ropes extending over a pulley for adjusting said weight, a hanger supporting said pulley, and a pole or poles carrying a pulley or pulleys for supporting the outer end of said rope or ropes, in combination with a gate and a bevelled gear wheel secured to said gate and engaging with the bevelled gear wheel on the shaft, substantially as and for the purpose set forth. 4th. An attachment to a gate post carrying a socket bearing or boxing, a shaft supported by and rotating perfectly free in said bearing, a bevelled gear wheel secured to one end of said shaft, an arm secured to the same end of said shaft, a wire strand connecting said arm with a spring latch on the free end of the gate, a catch on the post, against which the gate shuts, an arm secured to the other end of said shaft, a weight secured to said arm and means for adjusting said weight, in combination with a gate and a bevelled gear wheel secured to said gate and engaging with the bevelled gear wheel on the shaft, substantially as and for the purpose set forth. 5th. An attachment to a gate post carrying a socket bearing or boxing, a shaft supported by and rotating perfectly free in said bearing, a bevelled gear wheel secured to one end of said shaft, an arm secured to the same end of said shaft, a wire strand connecting said arm with a spring latch on the free end of the gate, a catch on the post, against which the gate shuts, an arm secured to the other end of said shaft, a weight secured to said arm, a rope or ropes, extending over a pulley for adjusting said weight and means for supporting said pulley and the outer end of said rope or ropes, in combination with a gate and a bevelled gear wheel secured to said gate, and engaging with the bevelled gear wheel on the shaft, substantially as and for the purpose set forth. 6th. An attachment to a gate post carrying a socket bearing or boxing, a shaft supported by and rotating perfectly free in said bearing, a bevelled gear wheel secured to one end of said shaft, an arm secured to the same end of said shaft, a wire strand connecting said arm with a spring latch on the free end of the gate, a catch on the post, against which the gate shuts, an arm secured to the other end of said shaft, a weight secured to said arm, a rope or ropes extending over a pulley for adjusting said weight, a hanger supporting said pulley and a pole or poles carrying a pulley or pulleys for supporting the outer end of said rope or ropes, in combination with a gate and a bevelled gear wheel secured to said gate and engaging with the bevelled gear wheel on the shaft, substantially as and for the purpose set forth.