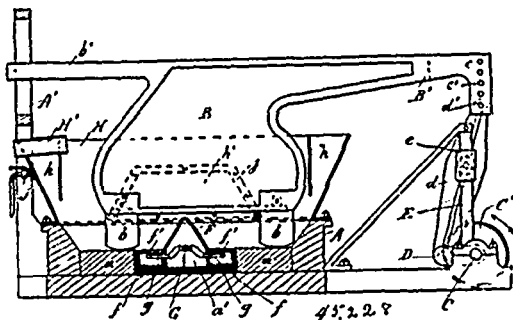


2nd. The combination, with the draw-head, having an inclined plane G, within a cavity in the draw-head, of the gravitating latch D, within said cavity, and a gravitating push bar E, engaging said latch, as set forth and for the purpose described. 3rd. The combination, with the pin B, of the rock-bar L, having an arm L¹, and the tongue M, gripping and operating said pin to couple and uncouple, as described. 4th. The combination, with the draw-head A, having a cavity rearwardly of the mouth, and a vertical pin-hole, and an inclined plane G, within said cavity, of the push-bar E, having one end supported by said inclined plane and the other end pivotally connected to a latch or cam D, hung to swing within said cavity, a hook-shaped dog J, pivoted to the latch and adapted to support the pin B, while the latch is maintaining the coupling link C, horizontally for coupling with an annexing draw-head, and means, substantially as set forth, for lifting and dropping the coupling pin without going between the cars.

No. 45,228. Stamp Mill and Amalgamator.
(Bocard et moulin à amalgamer.)



Charles Carter and Alfred Henry Bell, both of Irapah, Utah, U.S.A., 3rd February, 1894; 6 years.

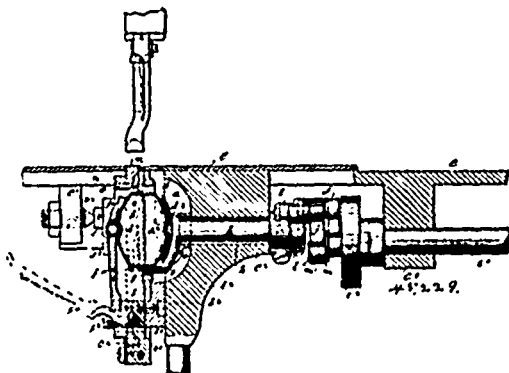
Claim.—1st. The combination, with a mortar box, having two dies and an amalgamator between the dies, of a stamp provided with two shoes and a substantially horizontal arm, and driving mechanism connected to the end of the said arm and operating to raise and lower one shoe and move the other shoe horizontally on its die towards the amalgamator, the said shoes being operated simultaneously and alternately, substantially as set forth. 2nd. The combination, with a mortar box having two dies, of a stamp provided with two shoes and two substantially horizontal arms, a vertical guide engaging with one of the said arms, and driving mechanism connected to the other said arm and operating to raise and lower one shoe and slide the other shoe across its die, substantially as set forth. 3rd. The combination, with the mortar box having two dies, and the stamp provided with two shoes, of a water tank secured to the top of the mortar box and having its end-inclined outwardly and upwardly, thereby forming chutes for conducting the ore on to the opposite ends of the dies, substantially as set forth. 4th. The combination, with the mortar box and the two dies, of the stamp provided with two shoes and a horizontally projecting arm having a series of holes in it, a driving shaft provided with a crank, a pitman connecting the said crank with the said arm, a guide shoe pivoted to the pitman and stationary guide for the guide shoe to slide on, whereby a longitudinally reciprocating and a rocking motion is imparted to the stamp, substantially as set forth. 5th. The combination, with the mortar box provided with two dies, and the stamp provided with two shoes, of the two mercury boxes and the central bent plate F, supported between the said dies, the perforated cover plates and pipes for admitting water between the mercury and the cover plates, substantially as set forth. 6th. The combination, with the mortar box provided with two dies, and the stamp provided with two shoes, of the two vertically adjustable mercury boxes and the central bent plate F, supported between the said dies, the perforated cover plates, the branch pipes admitting water between the mercury and the cover plates, the stationary supply pipe and the flexible pipes connecting the said supply pipes, substantially as and for the purpose set forth.

No. 45,229. Sewing Machine. (Moulin à coudre.)

Harry Moore, Wellingborough, Northampton, England, 3rd February, 1894; 6 years.

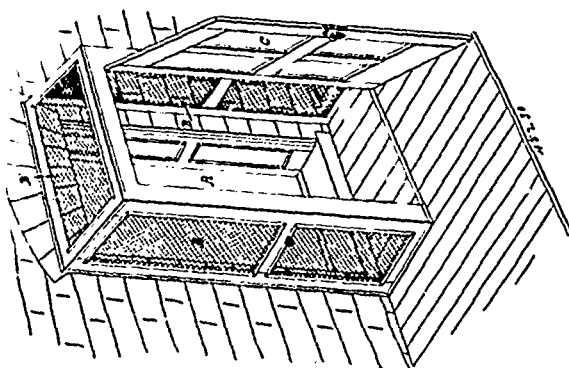
Claim.—1st. The combination, with a continuously rotated shuttle, of a central pin extending from the back of the shuttle, of a bobbin or thread case, and of a means for retaining the bobbin or thread case stationary on the central pin of the shuttle, substantially as set forth. 2nd. The combination, with a continuously rotated shuttle, of a central pin extending from the back of the shuttle, of a thread case made in two parts adapted to be secured together, of a cone-shaped hollow tube extending from the back part of the case and adapted to fit on the central pin, and of a means for retaining the case stationary on the pin, substantially as set forth. 3rd. The combination, with a continuously rotated shuttle, of a central pin extending from the back of the shuttle, of a thread case made in two parts adapted to be secured together, of a cone-

shaped hollow tube extending from the back part of the case and adapted to fit on the central pin, of a front central depression formed



with two holes, and of a means for retaining the case stationary on the pin, substantially as set forth. 4th. The combination, with a continuously rotated shuttle, of a central pin extending from the back of the shuttle, of a bobbin protection adapted to support and protect the front side of the bobbin, and to fit on the central pin and provided with a tension device, and of a means for retaining the bobbin protector stationary on the pin, substantially as set forth. 5th. The combination for driving the circular feed plate or ring consisting of a nipping-lever or grip working on the lip of the feed plate or ring, of links pivoted to the lever and connected to an arm on a counter-shaft, of a counter-shaft driven from the main shaft, and of a spring acting on the nipping-lever or grip, the whole substantially as set forth. 6th. The mechanism for varying the feed of the feed plate or ring consisting of a counter-shaft adapted to operate the feed mechanism, of a pivoted lever vibrated from the main shaft, of a link connected at one end to the counter-shaft and connected at the other end by a sliding joint to the vibrating lever and of a sleeve through which the link is free to slide, and which is adapted to be operated to move the sliding end of the link nearer to or further from the fulcrum of the lever, the whole substantially as set forth.

No. 45,230. Screen for Doorways. (Store de portes.)



Alexander Drummond, Evanston, Illinois, U.S.A., 3rd February, 1894; 6 years.

Claim.—1st. In combination with a doorway A, screen-sides B extending outward from the sides of the doorway and provided with an overhead covering, and a door C hinged to one of said sides and adapted to be swung on its hinges to open and close the passage between the sides, substantially as and for the purpose set forth. 2nd. In combination with a doorway A, screen sides B extending outward from the sides of the doorway, and provided with an overhead screen covering B¹, and a solid door C hinged to one of said sides and adapted to be swung on its hinges to open and close the passage between the sides, substantially as and for the purpose set forth.

No. 45,231. Feed Box. (Crèche.)

Thomas Lewis. Townsend, New York, U.S.A., 3rd February, 1894; 6 years.

Claim.—1st. A feed bin having vertical side walls, one of which is vertically adjustable, a bolt arranged to pass through the walls of the bin, a nut on the bolt to impinge the walls and hold the vertical wall in an adjustable position, a feed box hinged to the vertical side walls at the bottom of the bin, and a hinged cover for the feed bin, as set forth. 2nd. The herein described feed bin, consisting of the vertical sides and back and an inclined bottom, a feed box secured