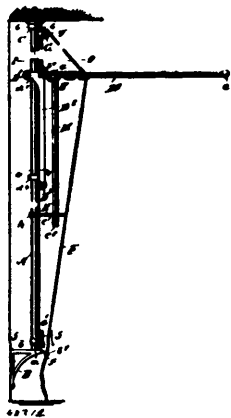


having steam inlet 6, provided with ports 5, 7, and having screw valves N, N', to prevent or permit passage of steam through said ports, and for the purpose set forth.

No. 48,312. Clothes Rack. (*Séchoir à linge.*)

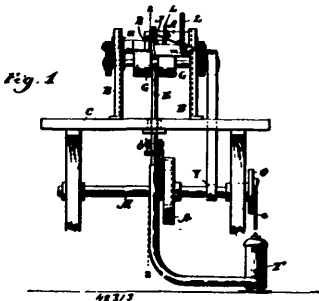


Thomas Edward Agan, assignee of Theodore M. Anderson, 14th of New Watcom, Washington, U.S.A., 1st March, 1886; 6 years.

Claim.—A clothes rack comprising a post, a carriage vertically movable on the post, a ceiling socket fitting the upper end of the post, and a wall bracket for the lower end of the post, the bracket having a semi-circular flange, forming a recess, and the post having a sliding ring adapted to embrace the said flange, and a keeper on the post preventing displacement of said ring, the ring being movable vertically on the post and flange to a point above the said flange, substantially as described.

No. 48,313. Paper Feeding Device.

(*Appareil pour fournir le papier aux presses à imprimer.*)



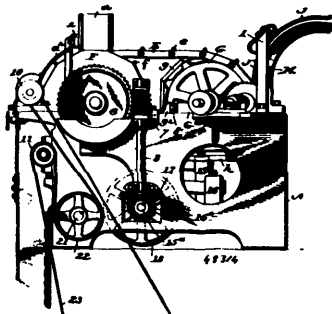
Francis Crawford Graves, and Henry Buckley Cooley, assignees of John Madison Noble, and James Edward Trevor, all of Hartford, Connecticut, U.S.A., 1st March, 1886; 6 years.

Claim.—1st. A paper feeding device consisting of a table for supporting the pile of paper, feeding rolls journaled in bearings below said table, the upper roll recessed for the passage of the paper therethrough, and a reciprocating suction pipe passing between said rolls and adapted to separate the bottom sheets of the pile, and carry the same to the feeding rolls, and means for creating suction in said pipe, substantially as described. 2nd. In a paper feed device, the combination with the inclined table for supporting a pile of paper flat upon the surface thereof, of the reciprocating suction pipe, the air pump, the feeding rolls journaled in bearings below said table, the upper roll recessed for the passage of the paper therethrough, the edge of the recess adapted to grip the sheet and strip it from the pipe as the said pipe descends, substantially as described. 3rd. In a paper feed device, the combination with the inclined table for supporting a pile of blanks, the feed rolls journaled in bearings on different vertical planes below the table, the upper roll recessed for the passage of the blanks, the suction pipe having its path of motion across the line of centres of said rolls, a shaft journaled

below the table, connections between said shafts and pipe for reciprocating the same, substantially as described. 4th. In a paper feed device, the combination, with the inclined table supporting the pile, the feed rolls journaled in bearings below the same, the upper roll recessed for the passage of the blanks, with the suction pipe and means for reciprocating said pipe once while the feed rolls make two or more revolutions, substantially as described. 5th. In a paper feed device, the combination, with the apertured table, for supporting a pile of blanks, with the separator at the front end thereof, of feed rolls journaled in bearings below the table, the upper roll recessed for the passage of the blanks, the vertically moving suction pipe, the rotating shaft below the table provided with a cam controlling the movements of said pipe, whereby the pipe is brought in contact with the bottom sheet of the pile resting over the aperture in the table, substantially as described. 6th. In a paper feed device, the combination, with the table for supporting the pile of paper, of the feed rolls rotating in bearings below the same, the upper roll recessed for the passage of the paper, the suction pipe, the rotating shaft carrying a disc having a cam groove in its surface, a lever fulcrumed at one end to a fixed part of the device, and pivotally connected by links to said pipe at its other end, and a link attached to said lever with one end engaging the said cam groove, whereby said pipe is caused to reciprocate between said rolls, substantially as described. 7th. In a paper feed device, the combination, with the apertured table for supporting the pile, provided with guides for said pile, one set of which projects through the aperture to guide the paper passing therethrough, the reciprocating suction pipe, and the feed rolls journaled in bearings below the table, adapted to strip the sheet from said pipe in its descent, substantially as described. 8th. A paper feed device, consisting of an inclined apertured table supporting a pile of blanks flatly upon the same and over the apertures, a separator projecting over the aperture and supporting the end of the pile, a reciprocating suction pipe adapted to pass by the separator and raise the pile in its ascent, and successively detach therefrom the bottom blank as it descends, with feeding rolls journaled below the table, the upper one recessed for the passage of the blanks, substantially as described.

No. 48,314. Stave Preparing Machine. (*Machine pour arrondir les douves*)

Fig. 1.



McClukharp Barrel Machine Company, assignee of James McClukharp and William K. Liggett, all of Columbus, Ohio, U.S.A., 1st May, 1886; 6 years.

Claim.—1st. In an organized machine for rounding one face of stave blanks and chamfering and crozing the same, the combination of a cutter having the blades arranged at intervals in its length to notch the blanks, a second cutter to remove that portion of the blank between the said notches, crozing and chamfering cutters, and feeding mechanism to carry the blanks in a curved path to the notching and rounding cutters, and to the crozing and chamfering cutters, whereby the blanks will first be notched in opposite edges, have the portion removed between the notches and then crozed and chamfered, substantially as set forth. 2nd. In a stave rounding machine, the combination of a cutter having knives at intervals in its length, feeding mechanism to carry the blanks in a curved path so that the cutter will notch the opposite edges of the blanks, substantially as specified, and a pressure bar having a series of transverse projections to correspond in number and position with the knives on the said cutter-head, to enter the said notches formed in the blanks to hold the latter firmly against vibratory or longitudinal movement, substantially as set forth. 3rd. In a stave rounding machine, the combination of a drum for feeding the stave blanks, a cutter located beneath said drum, pressure bars, one arranged on each side of the cutter, pivotally supported and adapted to move away from the drum, and weighted levers connected with the said pressure bars to yieldingly hold the same in a normal position, substantially as set forth. 4th. In a stave rounding machine, the combination of a stave blank feeding drum, a hopper located above the