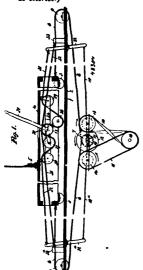
and an air inlet opening in the bottom of the case adjacent to each opening in said end-section and provided with a deflector leading to a leg, substantially as described. 3rd. In a heater, the combination of an inclosing case having its sides closed and provided with an air-chamber in its base having a perforated bottom and a kindling-pan on its upper side, a mixing-chamber supported in the upper partion of the case, and having an outlet for the products of combustion, and one or more openings in its base each provided with \$\frac{n}{2}\$ flow depending leg, a fuel supply pipe, forming a generator, extending lengthwise through the case, and having its end-section extended lengthwese along the kindling-pan underneath the mixing chamber, an opening in said end-section, substantially as described. 4th. In a heater, the combination with an inclosing case of a mixing-chamber C, supported in the upper portion thereof, and having one or more inlet-openings, and a damper-top C¹, ffording an outlet a, along its edge-portion and provided with one or more valve-covered openings, and a fuel-supply pipe, forming a generator, extending in the case underneath the mixing-chamber and having an outlet a, along its edge-portion and provided with one or more valve-covered openings, and a fuel-supply pipe, forming a generator, extending in the case underneath the mixing-chamber and having an outlet-opening at each inlet-opening to said chamber, substantially as described. 5th. In a heater, the combination with an inclosing case of a mixing chamber having an outlet for the products of combustion in its top and sides, and one or more openings in its base each provided with a hollow depending leg, a fuel-supply pipe extending through the case along opposite sides of the mixing-chamber, and having described. 6th. A heater comprising in combination, a case A having closed sides, one of which is provided with a valve-controlled opening, an air-chamber in the base of the case having as acreen-covered bottom and carrying a kinding-pan on i

No. 48,304. Device for Operating Saw Mill Carriages. (Appareil pour actionner les charriots de acieries.)

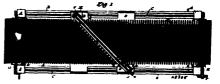


John Hamilton, Stewartville, Ontario, Canada, 1st March, 1895; 6 years.

Claim.—1st. The combination, with a saw-mill carriage and accessory means for driving the same, of a hand lever fulcrumed to said purposes specified.

carriage, said lever having two sets of sheaves and two cables passing in reverse order between said sheaves, said cables secured at the ends to fixtures and to tilting levers operating said accessory means, whereby the hand lever when inclined effects a pull on one cable, and when inclined in the opisite direction effects a pull on the other cable, to reciprocate the carriage when desired by a person riding thereon, as set forth. 2nd. A device for reciprocating or gigging saw-mill log carriages by accessory means, said device comprising a hand lever fulcramed to the carriage and having two sets of sheaves journalled thereto, and two cables, one cable passing between one set of sheaves and the other cable passing in reverse order between the other set of sheaves, and over sheaves attached to the carriage, one end of said cables attached to a fixture and the other each as lever, whereby a portion of each cable forms a long which is clongated by a sheave when the hand lever is inclined to effect a pull on either cable, as set forth. 3rd. The combination, with a saw-mill log carriage, and accessory means for gigging the same, of a hand lever fulcrumed to said carriage, said lever having two sets of sheaves and two cables, one cable passing between one set of sheaves and the other cable passing between the other set of sheaves and two cables, one cable forms a long divergently, one long being clongated when the hand lever is inclined in the opposite direction to effect a pull on the cables, respectively, and to cease when said lever is vertical, for the operation of the carriage by accessory means such as a friction gear, steam feed, &c., as described and set forth.

No. 48,305. Machine for Inserting Threads into Woven Fabrica. (Machine pour insérer le fil dans les tienus.)



Edmund Morris, Michigan City, Indiana, U.S.A 1st March, 1895; 6 years.

Claim .- 1st. The combination, substantially as herembefore set forth, with mear for supporting a woven fabric, of a series of mov-able thread-carriers on opposite sides of the fabric, which act upon an additional thread to interweave it with the threads of the cloth. 2nd. The combination, substantially as hereinbefore set forth, with means for supporting a woven fabric, of a series of movable thread-carriers on opposite sides of the fabric, which act upon an additional thread to interweave it with the threads of the fabric, and guides interposed between the movable carriers to co-operate with them in directing the movement of the additional thread. 3rd. The combination, substantially as hereimbefore set forth, with means for supporting a woven fabric, of a series of movable carriers arranged in pairs on opposite sides of the fabric, and which act on an additional thread to interweave it with the cloth. 4th. The combination, substantially as hereinbefore set forth, with means for supporting a woven fabric, of a series of rotating carriers on opposite sides of the fabric, which act on an additional thread to interweave it with the cloth. 5th. The combination, substantially as hereinbefore set forth, with means for supporting a woven fabric, of a series of rollers arranged cross-wise of the fabric and on opposite sides thereof, to guide a thread in a simuous course to interweave it through the meshes of the cloth. 6th. The combination, substanthrough the meanes of the cooth. Oth. The commination, substan-tially as hereinbefore set forth, with means for supporting a woven fabric, of roller-carrying bars arranged cross-wise of the fabric, and on opposite sides thereof, and rollers carried thereby for interweaving a thread with the fabric. 7th. The combination, substantially as hereinbefore set forth, with means for supporting a woven fabric, of roller-carriers on opposite sides of the fabric, each consisting of a pair of bars both carrying rollers, and means for separating the roller-carrying bars of each pair. Ath. The combination, substantially as hereinbefore set forth, with means for supporting a woven fabric, of roller-carrying bars arranged cross wise of the fabric and name, or rong carrying mars arranged cross-wase of the fabric and on opposite sides thereof, rollers carried thereby, gearing for driving the rollers, and guides interposed between the rollers. 5th. The combination, substantially as hereinbefore set forth, of the rollercarriers on opposite sides of the fabric, each consisting of a pair of bars, a shaft extending from one end of the bars to the other, a plate connected with and moved by the shaft, and having an inclined slot connected with a pin on one of the bars on the upper set, a plate pivoted to one bar of the lower set, and connected by a pin and slot with the adjacent bar of the same set, and connections between the two plates, for the purpose specified. 10th. The con-bination, substantially as hereinbefore set forth, with means for sup-porting a woven fabric, of a series of pairs of rollers arranged crossporting a woven more, or a series or pairs of router account cross-wise of the fabric, and on opposite sides thereof to guide a thread in a sinuous course to interweave it through the meshes of the cloth, some of said rollers having annular grooves, as described, for the