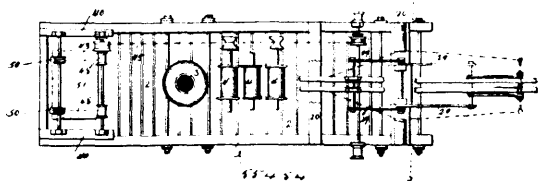
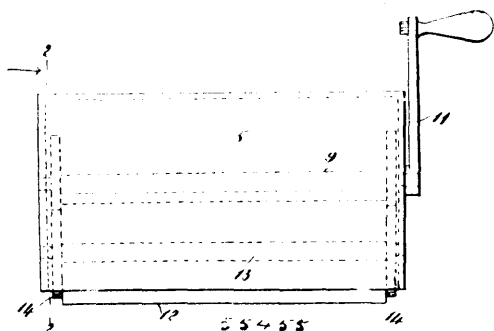


No. 55,454. Log Hauling and Loading Machine.*(Machine pour traîner et charger les billots.)*

William Andrew Fletcher, Beaumont, Texas, U.S.A., 29th March, 1897; 6 years. (Filed 1st March, 1897.)

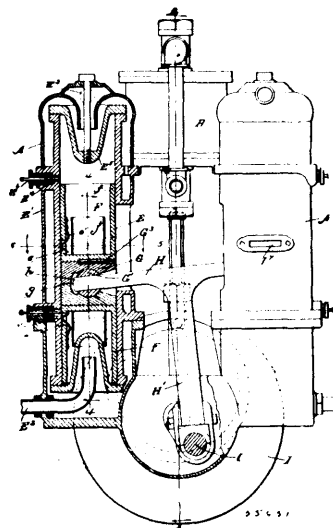
Claim.—1st. In a machine for hauling and loading logs on cars, the combination with the platform, the crane and the hoisting mechanism, of the pivoted legs and means for actuating them to elevate and lower the platform, substantially as described. 2nd. In a machine for hauling and loading logs on cars, the combination with the platform, the crane and the hoisting mechanism, of the pivoted legs, the pivoted shoes at the lower end thereof, the horizontal connecting bars, and means for raising the same, substantially as described. 3rd. In a machine for hauling and loading logs on cars, the combination with the platform, the crane and the hoisting mechanism, of the stationary bars secured to said platform, the outwardly extending lugs, the pivoted legs, the shoes pivoted to the lower end of said legs, the horizontal connecting bars, and means for elevating the same, substantially as described. 4th. In a machine for hauling and loading logs on cars, the combination with the platform, the crane and the hoisting mechanism, of the platform, the stationary vertical bars secured thereto having tapering upper ends, the angle plates secured to the lower ends thereof, the outwardly extending lugs, the pivoted legs having their upper ends tapering, the shoes pivoted to the lower ends of said legs, the horizontal connecting bars, and the links for locking said bars and legs together, substantially as described. 5th. In a machine for hauling and loading logs upon cars, the combination with the platform, the crane and the hoisting mechanism, of the stationary vertical bars having their upper ends tapered and their lower ends provided with angle plates, the outwardly extending lugs, the pivoted legs having their upper ends tapered, the shoes at the lower ends thereof, the horizontal connecting bars, the chains connected therewith, the spools to which said chains are secured, the links for locking said bars and legs together, and the protecting bar secured to the inner sides of said angle-plates, substantially as described. 6th. In a machine for hauling and loading logs on cars, the combination with the platform and the pivoted legs, of the hoisting drums, the crane provided with drums and the hoisting ropes, the construction being such that said platform can be raised by operating the drums, and pulling upon the hoisting ropes, substantially as described. 7th. In a machine for hauling and loading logs on cars, the combination with the platform and the pivoted legs for supporting the same in an elevated position, of the hoisting mechanism, the crane frame, the turntable, the inclined arms secured thereto, the crane extending inwardly beyond the pivoted point with its inner end resting under the inner crossbar of said frame, substantially as described. 8th. In a machine for hauling and loading logs upon cars, the combination with the platform and the pivoted legs and connections to the hoisting mechanism, of the pivoted crane and the guy ropes secured to said crane for holding it in place, substantially as described.

No. 55,455. Sharpening Device. *(Appareil à aiguiser.)*

Charles Harry Molynaux, Halifax, Nova Scotia, Canada, 29th March, 1897; 6 years. (Filed 23rd January, 1897.)

Claim.—1st. The herein described device for sharpening the calks of horses and other articles, the same consisting of a suitable casing, a shaft mounted therein, and passing through each end thereof, and provided with a gear wheel at each end, said shaft being also provided with a crank, and two rollers composed of carborundum or similar material which are also mounted in the said casing, and the shafts of which project through the ends thereof, and are provided

with gear wheels, the gear wheels on the shafts of the rollers being adapted to be operated by the gear wheels on the shaft with which the crank is connected, substantially as shown and described. 2nd. In a sharpening device for the purpose herein described, the combination with a suitable oblong casing which is open at the side, a shaft mounted in said casing and projecting through the ends thereof, and provided with a gear wheel at each end, one end of said shaft being also provided with a crank, and two rollers composed of carborundum or similar material, said rollers being mounted adjacent at the open side of the casing and projecting therefrom, and the shafts of said rollers being projected through each end of the casing, and being also provided at each end with gear wheels which are adapted to be operated by the gear wheels on the shaft provided with a crank, substantially as shown and described. 3rd. The herein described device for sharpening the calks of horse shoes, or other articles, the same consisting of a suitable casing which is open at one side and in which is mounted two rollers composed of carborundum or similar material, said casing being also provided with a shaft which is provided at one end with a crank, and on which are mounted gear wheels which operate in connection with gear wheels at the ends of the rollers, substantially as shown and described.

No. 55,456. Vapour Motor. *(Moteur à vapeur.)*

Levi S. Gardner, New Orleans, Louisiana, U.S.A., 20th March, 1897; 6 years. (Filed 25th January, 1897.)

Claim.—1st. In a gas or vapour motor, the combination of two cylinders arranged adjacent to each other, and pistons working therein of a common pitman connected to and carried by both pistons, said pitman connected with the crank shaft, and having no connection or bearing except with the crank shaft and pistons, substantially as described. 2nd. In a gas or vapour motor, the combination with two vertical cylinders arranged adjacent to each other, pistons in each, and each provided with an opening in its side, of a cross-head connecting the pistons, and a single pitman carried by the cross-head, the latter having no bearing or connection except with the pistons and pitman, substantially as described. 3rd. In a gas or vapour motor, the combination of two vertical cylinders arranged adjacent to each other and each having an opening in its side, a piston in each cylinder, a single cross-head, one end of which is pivotally connected with one piston, while the other is pivotally connected with the other piston, and a pitman integral with or rigidly connected to the cross-head, said cross-head having no connection or bearing except with the pistons, substantially as described. 4th. In a gas or vapour motor, the combination of two vertical cylinders, each having an elongated opening in the side, piston head in each cylinder, an opening in the side of each piston head and a connection extending from each piston through the opening to a single shaft, said connection working in the vertical slot in each cylinder and piston, substantially as described. 5th. In a gas or vapour motor, the combination of two vertical cylinders, a piston in each cylinder and connections from each piston to a common crank and crank shaft, a gas inlet and a gas outlet for each cylinder and means for igniting the gas in each cylinder, said ports so arranged that the gas in one cylinder will explode slightly in advance of the explosion in the other cylinder, substantially as described. 6th. In a gas or vapour motor, the combination with two vertical cylinders, each having a piston head, a gas inlet and a burnt gas outlet for each cylinder, connections from each piston head to a common crank and crank shaft and means for igniting the gas in each end of each cylinder, said parts so arranged that the gas in one end in one cylinder will explode slightly in advance of the explosion in the corresponding end of the other cylinder, substantially as described. 7th. In a gas or vapour motor, the combination with two cylinders, each having a piston head, a gas inlet and a burnt gas outlet for each cylinder, a