

No. 22,006. Self-Feeding Furnace, etc.*(Fourneau, etc., à Alimentation Continue.)*

Stephen T. Bryce, Dayton, Ohio, U.S., 4th July, 1885; 5 years.

Claim.—A magazine having an opening provided for admitting a supply of air above the fuel, and constructed with a double wall, the inner wall having openings communicating with the open passage between, whereby a current of air is passed downwardly between the walls of the magazine to the combustion chamber, for the purpose of supplying draught to the fire, of cooling the magazine, of carrying to the fire from the magazine any accumulations of gases or smoke, and for supplying heated oxygen to mix with the hydro-carbons of the fire chamber to produce complete combustion, substantially as described.

No. 22,007. Horse Collar Fastening.*(Couplière d'Atelles de Collier.)*

Ives P. Hoff, Bainbridge, and Edward L. Bennett, Binghamton, N. Y., U.S., 4th July, 1885; 5 years.

Claim.—In a horse collar fastening, the combination, with upper plates D, E, D E, provided respectively with a tongue F and a spring catch G, and pivoted lever H for operating it, of lower or base plates C, C and suitable spurs a, a on either the upper or lower plates, and means for fastening said plates on the collar, substantially as and for the purpose hereinbefore set forth.

No. 22,008. Blind Slat Check.*(Arrête-Lame de Persienne.)*

John Racey, Quebec, Que., 4th July, 1885; 5 years.

Claim.—1st. The combination, with the lower rail a and lower slat B of a blind, of the plate D pivoted to rail a and provided with a lip d₂, and the spring catch F having loop f and secured to the lower slat, substantially as herein set forth. 2nd. The combination, with the rail a, slat B, spring F and plate D, of the stops G, H, substantially as herein set forth. 3rd. As an improved article of manufacture, the slat check plate D, made with a locking lip d₂ and end portion or shoulder d₃, substantially as herein set forth.

No. 22,009. Sad Iron. (Fer à Repasser.)

Thomas Rexford, Eastman, Que., 4th July, 1885; 5 years.

Claim.—1st. The hollow reservoir handle E having feed F and provided with faucet G, tube H enclosing pipe I turned into the hollow body of the sad iron, and terminating in a suitable burner, as set forth. 2nd. A sad iron heater, gas generator and burner composed of a tube H containing a metallic packing L and perforated with holes K, an interior tube I₁ out away at the top to expose the holes K, and an exterior wrapping of wire cloth M, the concentric tubes closed solidly at one end and provided at the other end with means for coupling to fuel supply and air tube, as set forth. 3rd. The body A, having the top and bottom thickened at the centre, and graduated towards the edge, to cause uniform distribution of heat, as set forth. 4th. The handle E, provided with a spring lever N having a pin O locking with the body A, as and for the purpose set forth.

No. 22,010. Wire Fence. (Clôture en Fil de Fer.)

Charles W. Weld, Southbridge, Mass., U.S., 4th July, 1885; 5 years.

Claim.—1st. In a wire fence, the combination of the following instrumentalities, to wit: a post provided with one or more transverse grooves in its side, a wire and a clamp fitted to slide on said post and provided with an arc-shaped or laterally curved jaw, adapted to engage the wire and clamp or bend it when the wire is disposed in the groove, and the jaw of the clamp is forced or driven over the wire, substantially as described. 2nd. In a wire fence, the post A, provided with the groove f and bearing point r, in combination with a clamp fitted to slide on said post and adapted to bend or grip a wire disposed in said groove, substantially as set forth. 3rd. In a wire fence, the clamp B, in combination with the post A, said clamp being provided with the two arc-shaped or laterally curved jaws d, z standing at different angles to the body of the clamp, substantially as and for the purposes specified. 4th. In a wire fence, the clamp B having the laterally curved jaw d, and provided with the flange f, substantially as and for the purpose set forth. 5th. In a wire fence, the post A provided with the groove f and bearing point r, the clamp B provided with the curved jaws d, z and flange f, and the wire C, combined and arranged to operate substantially as described. 6th. The improved wire fence, herein described, the same consisting of the posts A, clamp B and wires C, constructed, combined and arranged to operate substantially as set forth.

No. 22,011. Hay and Grain Elevator and Carrier. (Charriot Monte-Foin.)

Edwin D. Mead, Shortsville, N.Y., U.S., 4th July, 1885; 5 years.

Claim.—1st. In a car or carrier for hay and grain elevators and unloaders, the combination of two pulleys provided with teeth upon their opposite faces, and a lever adapted to force the pulleys together, or to permit them to separate at will, whereby the pulleys may be caused to rotate together as one pulley, or to rotate independently and at different speeds to give additional power when hoisting. 2nd. In a car or carrier for elevating and unloading hay, etc., the combination of a main body, a frame pivoted therein, and provided with two pulleys adapted to be clutched and unclutched to and from each other, a shifting lever adapted to clutch and unclutch said pulleys, and a beam or lever connected with the pivoted frame and with the shifting lever, substantially as shown and described, whereby the frame is held up and the pulleys are locked together until a predetermined weight or strain is brought upon the pulleys, and then frame

is caused to descend, raise the beam or lever and unclutch the pulleys. 3rd. The combination of a car provided with a vertically-movable frame, pulleys mounted in said frame and adapted to be locked together or disconnected, a shifting lever and a pulley block suspended from the car by a rope passing about the pulleys of the car and pulley block, substantially as shown. 4th. In combination with a car provided with pulleys adapted to be coupled or uncoupled and a shifting lever for controlling said pulleys, a pulley block provided with pulleys adapted to be coupled and uncoupled, and with a shifting lever for effecting the coupling and uncoupling of said pulleys and a rope passing about the pulleys of the car and block, substantially as described and shown. 5th. The combination, substantially as set forth, of a car provided with a movable frame, pulleys carried by said frame and adapted to be coupled and uncoupled, a shifting lever for said pulleys, and a beam connected with the frame and shifting lever and adapted to be moved by variation of the weight brought upon the pulleys, a pulley block provided with pulleys adapted to be coupled and uncoupled, a shifting lever for controlling said pulleys, a push bar connected with said lever and adapted to be moved by the load as the latter is drawn up to the block, a hoisting rope passing about the pulleys of the car and block, and a sling or binding rope attached at one end to the hoisting rope and at its other end to the pulley block, whereby the hoisting rope is caused to move through the car and block equally while the rope is being bound or compressed, and then to cause its travel through the block and to have the power of all the pulleys acting independently in lifting the load. 6th. In a car or carrier for hoisting, moving, and discharging hay and grain, the combination of body a, frame E pivoted therein, axle e carried in said pivoted frame, pulleys C, H, mounted upon said axle and formed with teeth f, shifting lever K, and pivoted beam I connected with frame E and shifting lever K, substantially as described and shown. 7th. The combination in a car or carrier, of a main body, frame E pivoted therein and provided with axle e, pulleys G, H, mounted on said axle and provided with teeth f, shifting lever K, lever I connected with frame E and lever K, and guide pulley F gearing with pulley G, for the purpose explained. 8th. In combination with a car or carrier, substantially as described and shown, a guide pulley mounted therein at one side of the hoisting rope pulleys, whereby the draft end of the hoisting rope may be carried beneath the car toward either end thereof, without interfering with the hoisting rope. 9th. In combination with track Q, provided with hooks P, car A provided with yoke M, rod N, pulleys u, and rope Q, 10th. In combination with track Q, provided with hooks P, car A provided with yoke M, pulley block B and hoisting rope C. 11th. In a hoisting apparatus, a pulley block provided with two pulleys adapted to be locked together or released at will, whereby a single or double purchase may be had without changing the arrangement of the hoisting ropes. 12th. In a hoisting apparatus, a pulley block provided with shell p, having inclines v, pulleys R, S, having teeth u, and lever T provided with inclines w, substantially as and for the purpose set forth. 13th. In a hoisting apparatus, a pulley block having its shell p provided with inclines v, pulleys R, S, provided with teeth u, lever T provided with inclines w, and push bar U connected with the lever T and extending below lever to be struck and moved by the load. 14th. The combination in a pulley block, of a pulley having gear teeth, and a movable frame provided with corresponding teeth and with a rose or dog to enter the groove of the pulley, whereby a rope is permitted to pass freely over the pulley in one direction, but is clamped and held by the dog against movement in the opposite direction. 15th. In combination with shell p, and pulley R, movable frame V, said pulley and movable frame being both provided with teeth z, and the frame provided with nose or dog a₁, substantially as and for the purpose set forth. 16th. In combination with shell p, pulley R and frame V, said frame and pulley both provided with teeth z, and the frame being further provided with dog a₁, cord u for drawing back the frame V. 17th. In combination with shell p having nose or horn g, and latch r, pulley R and frame V, both provided with teeth z, and the latter provided with dog a₁ and roller c₁, and cord d₁, attached to latch r, passing over roller c₁ and through shell p, substantially as and for the purpose explained. 18th. In a hoisting apparatus, the herein-described pulley block consisting of shell p, provided with inclines v, pulleys R, S, provided with teeth u, lever T having inclines w, push bar U, frame V provided with teeth z, to mesh with like teeth on pulley R, and having dog a₁ and roller c₁ and cord d₁, all substantially as described and shown. 19th. The combination in a car or carrier, provided with pulleys G, H, and shifting lever K, of a guide-pulley F gearing with pulley G, for the purpose explained. 20th. The combination of a car provided with pulleys mounted therein, and adapted to be locked together or disconnected, a shifting lever for connecting and disconnecting said pulleys, and a pulley block suspended from the car by a rope passing about the pulleys of the car and pulley block, substantially as shown.

No. 22,012. Mowing Machine. (Fauçeuze.)

The Massey Manufacturing Company (Assignee of Mathew Garvin and William J. Clokey), Toronto, Ont., 6th July, 1885; 5 years.

Claim.—1st. A cutter bar supported on the shank H of the lever I, in combination with the eye bolt J, supported in suitable bearings on the push bar K, and forming the pivot point on which the cutter-bar is rocked. 2nd. The cutter bar F, secured to the shoe G, which has on arm extending through the loop-bracket L, in combination with the shank H, of the lever I, passing through the loop bracket and a bearing formed in the shoe G, and eye bolt J. 3rd. The push bar K, secured at its upper end to the main frame of the machine and supported at its lower end by the leader wheel so as to carry the cutter bar F, as specified, in combination with the slotted bar P, adjustably connected to the main frame of the machine by the bolt Q. 4th. The push bar K, secured at its upper end to the main frame of the machine, and supported at its lower end by the leader wheel, the cutter-bar F, pivotally connected to the push bar K, and connected to the lever N, by the rod O, in combination with the slotted bar P, adjustably connected to the main frame of the machine by the bolt Q, substantially as and for the purpose specified. 5th. The lifting-lever N, having fixed to its spindle a toothed gear, in combination with the foot-lever R, having a gear formed on it to mesh with the gear on the spindle S.