No. 7346. Platform Scale Protector.

(Protecteur de bascule.)

David A. Gilbert, Morrisville, Vt., U. S., 10th May, 1877, for 5 years.

Claim .- 1st. In a platform scale, an elevated curb surrounding the plat-Cratm.—1st. In a platform "cale, in clevated curb surrounding the platform or opening for the ordinary platform, in combination with a cover resting on the platform and a cover fixed to beams or legs that rest on said platform, 3rd. The cover (in sections or whole) made with a flange fitting over the curb and adapted to rest on the lower platform or beams, and to receive the best to be bed to be visible. ceive and hear the load to be weighed.

No. 7438. Improvements on Fringing Machines.

(Perfectionnements aux machines a frange.)

Jesse B. Lincoln, Providence, R.L., U.S., 10th May, 1877, for 5 years.

Clatin,—1st. The series of metallic hooks or points b b set into a franging surface at intervals; 2nd. The rotating wheel F having on its periphery a series of fringing points b b, in combination with a feeding incehanism E; 3nd. The combination of the table A and revolving inger F; th. The table A, bearings B C, spindles D G, crank H, gearing d I, wheel F, fringing points b band guard J.

No. 7439. Machine for Grinding Wheat.

(Machine à moudre le blé.)

John S. Detwiler, Philadelphia, Pa., U.S., 10 May, 1877, for 5 years.

Claim.—Ist. The combination of a pair of stones set to grind coarse; the a second pair of stones, of larger dunieter, set to grind fine and run at a slower speed than the upper and smaller pair of stones, the partially ground grain falling from the upper to the lower stones and passing from the latter in the form of flour; 2nd. The millstone dress consisting of straight, broad and shallow furrows, only leading direct from the eye to the skirt of the

No. 7440. Improvements on Steam Engines.

(Perfectionnements aux machines à rapeur.)

George G. Lafayette and Pitt W. Strong, Brockville, Ont., 10th May, 1877. for 5 years.

for 5 years.

Claim...—1st. The trunk B sliding obliquely on the shaft A passing through its centre and having a slot H eccentric thereto, and a sleeve C with slot K transversely thereto and held by a stud D to the shaft A by a set serew I whereby, by changing motion of the said trunk, the centre of the sleeve is thrown across the centre of the shaft and the sleeve partially rotated, 2nd. The collar or ring F integrally combined with the trunk B for the attachment of a lever for its operation, 3rd. The trunk B having slot I, in combination with the sleeve C held to the shaft A and 4 rovided with guide block J, for keeping the sleeve from turning on the trunk.

No. 7441. Improvements on Seeding Machines. (Perfectionnements aux machines à semer.)

John M. Westcott, Milton, Ind., U.S., 10th May, 1877, for 5 years.

Claim-1st. The combination of scalloped feed wheel C and sleeve E, the sleeve E being of smaller diameter than the wheel C to provide for the free access of grain to both the periphery and ends of the scallops; 2nd. The combination of the peripheral seed wheel and the sliding sleeve E, provided with cut off wings ext at top and bottom of the seed cup; 3rd. The combination of revolving peripheral feed wheel C and sleeve E the wheel having a bearing at its outer end and at its other end a projecting hub C resting and revolving within the sleeve E; 4th. The combination of sliding shaft D, collar G, swivelling Jaw arm I and lever H; 6th. The combination of sliding shaft D, collar G G, indicator K L M, swivelling law I and lever H connected and over H connected and ov sleeve E being of smaller diameter than the wheel C to provide for the free Jaw I and lever II connected and operating, as specified.

No. 7442. Machine for Threshing and Separating Grain.

(Machine à battre et separer les grains.)

John H. Edward, St. Paul, Ma., U.S., 10th May, 1877, for 5 years.

Claim.—1st. A mounted thresher and adjusting mechanism whereby the front end of the machine can be adjusted or lovelled relatively to the front axle; 2nd. The combination with the wheel A, of hooked rod at and cross tie a; 3rd. The combination with the concave of toggle levers, a crank shaft or rock shaft and links connecting the crank shaft with the toggle levers for adjusting the position of the concave, 4th. The combination with a crank wheel F, the pitman F; and connecting bar F; for the adjusting plate f, 5th. In a separating machine, the separating table E provided with blind slats and shouldered wires e, 6th. The combination with crank arms E; E; of an adjustable connecting bar F; 7th. The combination in a thresher and separator, of the slatted separating table I, shouldered fingers e, prain table G; and the grain rake or raddle belt G; 8th. In a thresher and separator, a grain table G; provided with the trap or hinged portions G; to afford access to the interior of the machine; 9th. In a grain separator, the combination with the far of a winnower shoe having an adjustable false bottom in the of a winnower shoe having an adjustable false bottom made in two parts hinged to each other, 11th. In combination with the winnower shoe the supplemental returning board J; and adjustable segments Y; 12th. The belt crank L; and link in combination with hink l, hinged to the shoe, and adjustable link h, 13th. Link I; in combination with spout L and adjusting plate L;, 14th. Spout L Claim.-1st. A mounted thresher and adjusting mechanism whereby the

having bottom openings It It and slides Is Is, in combination with the centrally having bottom openings II I and slides Is In combination with the centrally pivoted grass seed screen Is; 15th. In a grain separator, the combination of an overblast fan and a central blast deflector N, with the screen or see I and the bottom board of the vinnower sloe; 16th. The combination with the over blast fan, the central blast deflector and the screen of an adjustable bottom board in the winnower shoe; 17th. The combination of the adjustable tailings board 12 and returning spout g with the next of sieve-constitution of the long course meshed upper slave and the short their metallioner sleves. 18th. In combination with the swinging plate T and state 19 S; the author 18 S; bett II; hose neitley is and authoriting prechapsed. R St. the pulley R2 S2 belt Ut toose pulley w and supporting mechanism to driving the swinging stacker.

No. 7443. Improvements on Mowers and Reapers.

(Perfectionnements aux faucheuses-maissonneuses.)

William N. Whitely, Springfield, Ohfo, U.S., 10th May, 1877, for 5 years

William N. Whitely, Springfield, Ohio, U. S., 10th May, 1877, for 5 years. Claim.—1st. The combination of two independent driving and supporting wheels an adjustable gear frame and a universal jointed crank shaft to drive the cutters, the said shaft being mounted in the said frame; 2nd. The combination of two independent driving and supporting wheels, an adjustable gear frame, a universal jointed crank shaft mounted in said gear frame; a hinged pole for guiding the machine and a draft rod connection from the front end of the adjustable gear frame to an independently acting while frame to the foot end of the adjustable gear frame to an independently acting apparatus. C I hinged or jointed crank shaft (i. H., the hinged or jointed criting apparatus. C I hinged or jointed around the said crank shaft, hinged pole I. the fox lever M mounted upon said pole and connected to the adjustable frame, as such manner that the operator can lift the front end of said adjustable frame and carry the weight upon the pole; 4th. The combination of an adjustable gear frame or universal jointed crank shaft, hinged cutting apparatus with the lifting lever J mounted upon said adjustable frame, in such a manner that the operator may turn the cutting apparatus into an elevated position and, by means of the foot lever, place the weight upon the pole of the machine, 5th. The combination of the universal joint of the with the cutting apparatus, hinged around the same, the cross joint of the crank shaft and so arranged that the points of the guant ingers may be turned up and down and the cutting apparatus rise and fall to meet the undulations of the ground and be turned to a vertical position while the machine is in gear and the knives in full play; 6th. The combination of the universal jointed crank shaft, the foot lever to lift the hele of the cutting apparatus and the thiversal crank shaft, the foot lever to lift the hele of the cutting apparatus and the thiversal connection between the cutting apparatus and the illing lever for lifting a Claim .- 1st, The combination of two independent driving and supporting joint operation.

No. 7444. Improvements on Churus.

(Perfectionnements and barattes.)

Oliver W. Davis, Waterbury, Vt., U.S., and Walter H. Nelson, Sherbrooke, Que., 10th May, 1877, for 5 years.

Claim.—The combination of the body A with the oscillating supports BB and bearings C, frame D with handles G G, and springs E E wit metalle box H and brace K.

Improvements in Rock Drills. No. 7445.

(Perfectionnements and forets de mines.)

Simon Ingersoll, Stamford, Conn., U.S., 10th May, 1877, for 5 years,

-1st. The swell He of larger diameter than the central part of the Claim.—181. The swell 11 of larger diameter than the central part of far piston H and extending around the same, in combination with the parial bushings g g arranged at a distance apart and with the cylinder G, 2d. The pins K k having the head K fitted steam tight, in combination with the piston H H1, and with the part N n, spring n, spring n and levers L/LZ, 3d. The chuck h with its dove-tailed base end arranged to fit the annular dostailed hold h_2 , on the end of the piston rod, and the mortised retaining to h_2 , in combination with the drift M and piston rod M n. The tripel legs V attached to the machine by the ball and sockel joints r and the securing bolts v, 5th. The triped leg W attached to the machine by means of the latentity rendulous four n and the fixing screw m. of the laterally pendulous joint to and the fixing screw ter

No. 7446. Process for the Preparation of Animal Food.

(Pencédé de préparation de la ciande.)

John L. Johnston, Sherbrooke, Que., 10th May, 1877, for 5 years.

Claim .- 1st. The abstraction of a portion of the pinces of animal food previous to its being subjected to a process of salting. 2nd. The separation of the bones from animal food previous to its being salted for the preparation of compressed corn beef. 3rd. The addition to animal food, at any stage of stages, during the process of its being prepared or packed for future use, of a portion or portions of the expressed salts of flexit or soluble constituents of animal food.