

ing drums *q* and their shafts, the gear wheels connecting the two shafts, and the hand cranks. 9th. In combination with the main wheeled truck, its masts, curtains and belts *fi*, the supplemental single masted truck provided with the elevating ropes *h*, whereby it is adapted to cooperate with the main apparatus to elevate a curtain suspended between the two.

No. 15,259. Improvements in Insulating and projecting telegraph wires. (*Perfectionnements dans l'insulation et le recouvrement des fils télégraphiques.*)

William E. Banta, John M. Dodd and Abner M. Crothers, Springfield, Ohio, U.S., 7th August, 1882; for 5 years.

Claim.—1st. A supporting or insulating case, or enclosure, for telegraph wires and other electrical conductors, which consists of a series of troughs *A* hermetically connected and hermetically closable by a coping *B*, the said troughs being provided interiorly with posts *D* and spools *E* for support and attachment of the wires or devices. 2nd. A hollow street pavement curb adapted to form a supporting and insulating case, or enclosure for telegraph wires and other electrical conductors, which consist of a series of troughs *A* hermetically closable by a coping *B*, the said trough being provided interiorly with posts *D*, and spools *E* for support and insulation of the wires or conductors. 3rd. The combination, with suitable troughs, of the posts *D*, spools *E*, washers *F*, and wires *G* adapted to support the electrical conductors.

No. 15,260. Improvements on Mill-Stones. (*Perfectionnements aux meules des moulins.*)

André St. Denis, Sherbrooke, Que., and Malcolm McFarlane, Stratford, Ont., 7th August, 1882; for 5 years.

Claim.—1st. In a run of mill-stones, the combination of the plate *E* and driver *D* with the bed stone *A*. 2nd. In a run of mill-stones, the combination of the bevelled guard *M* with the runner *B*. 3rd. In a mill stone, the doubly inclined peripheral grooving.

No. 15,261. Improvements in Boiler Coverings. (*Perfectionnements aux couvertures des chaudières.*)

Terence Sparham, Brockville, Ont., 8th August, 1882; for 5 years.

Claim.—A boiler covering composed of equal parts of finely powdered plumbago, soapstone and mica, mixed with sufficient coarse molasses, to form a paste of proper consistency to be applied to the boiler, or other articles requiring such covering.

No. 15,262. Improvement in Starching Machines. (*Perfectionnements aux machines à amidonner.*)

Demmon Rowley and Cecil G. Rowley, Jamestown, N. Y., U. S., 8th August, 1882; for 5 years.

Claim.—1st. A steam chest having an opening and a steam pipe entering therein, in combination with an internal revolving cylinder with loose balls therein, the cylinder being provided at the ends with suitable bearings and having fixed ribs for carrying the loose balls up the sides. 2nd. The combination of steam chest *A*, pipe *b*, cylinder *B* provided with, ribs *D D* and loose balls *a a a* within said cylinder.

No. 15,263. Improvements in Vices.

(*Perfectionnements aux étaux.*)

Alexander Hendry, Fayetteville, Ark., U. S., 8th August, 1882; for 5 years.

Claim.—1st. The combination, with the movable or one jaw of a revolving bench vice, of the adjustable device *E E*. 2nd. The combination, with the jaw *B*, of the revolving bench vice *A A* having reversible collar casting *b* and nutted bolt *bx*, of the adjustable device *E E*. 3rd. The combination, with the jaw of a revolving vice, of the device *E E* having slots *c* and adjusting screws *et*.

No. 15,264. Improvements on O. G. Eave Trough Machines. (*Perfectionnements aux machines à larmiers en ogive.*)

William B. Chambers, Welland, Ont., 8th August, 1882; for 5 years.

Claim.—1st. In combination with an *o g* eaves trough machine, a movable plate or block *F* placed in the recess *B* and operating in connection with it. 2nd. In combination with an *o g* eaves trough machine, a movable plate or block *F* pivoted in the recess *B* of the center piece *A*. 3rd. In combination with the center piece *A* or movable plate or block *F*, the slots *b b* to admit a lateral movement of the said movable plate or block *F*. 4th. The movable plate or block *F* provided with the groove *f*, and pieces *q q* and openings *h h*. 5th. In an *o g* eaves trough machine, the stop *L* to prevent the header rod from springing upon the centre while heading.

No. 15,265. Improvements on Rocking Fire Bars. (*Perfectionnements aux barres de grilles oscillantes.*)

James G. Galley, London, Eng., 8th August, 1882; for 5 years.

Claim.—1st. The movable firebar consisting of the body of the bar *a* combined with the end pivots *b b* and the tapering projections or teeth *p*. 2nd. The combination of the body of the movable firebar *a* with the angled feather *g*. 3rd. The combination, with the movable firebars *a* and angled feathers *g*, of the pins *h*, the notched bar *i* and the handle *l* connected to the bar *i*. 4th. The combination, with the notched bar *i* and handle *l*, of the spring *t*.

No. 15,266. Improvements on Fanning Mills. (*Perfectionnements aux tarares-criblleurs.*)

Carl C. Eddy and Ambrose A. Levan, Pekin, N. Y., U.S., 8th August, 1882; for 5 years.

Claim.—1st. The combination of the casing *A* with the reversible chute or spout *N*, having studs *M M*, the *T*-lever *H* having slot *L* and suitable operating mechanism. 2nd. The combination of the casing *A* with the reversible chute or spout *N*, the shoe, the *T*-lever *H* and suitable operating mechanism. 3rd. The combination, with the shoe having a cross piece *E*, of a set or gang of sieves suitably secured or connected to each other, the lower one extending beyond the others so as to pass under the said cross piece *E*, which thereby serves to hold the entire set in position. 4th. The combination of the shoe having cross piece *E* and slots in which a screw threaded rod *F* having a tightening nut *G* vertically adjustable, with the set or gang of sieves *C D* which are suitably secured together, the lower are extending under the cross piece *E*, which serves to hold the front end of said set of sieves in position, their rear ends being clamped between the sides of the shoe by means of the rod *F* and nut *G*. 5th. The combination, with the shoe of the rock shaft, suitable bearings therefor, the arms cranks *N* *O*, lever *P* pivoted upon the side of the casing, and a hammer or crank *N* adapted to strike the sieves. 6th. The combination, with the shoe of the rock shaft *M* and crank *N* provided with a threaded opening *Q* and an adjustable screw threaded, hammer *K* and mechanism for operating said rock shaft.

No. 15,267. Improvements on Combined Hay Rakes and Loaders. (*Perfectionnements aux râtaux charge foin.*)

Thomas F. Flynn, London, Ont., 8th August, 1882; for 5 years.

Claim.—1st. The combination of the axle tree *B* with disks *E E*, shaft *G*, frames *C C*, endless carriers *I I*, slats *H*, rake heads *J J* and guide strips *S S*. 2nd. In combination with the above, the shafts *G* *G*, frame *C*, disks *E E*, carriers *I I* guide strips *S S*, grooved guide and tension shaft *T* and tension bands *R R*. 3rd. The combination of the cross bar *L* with rake teeth *K K*, arms *M M*, springs *O*, frame *C*, guide *P*, rod *N*, eye *N* and stud *O*.

No. 15,268. Broom-holder. (*Porte-balai.*)

Henry M. Wells and Thomas R. Fuller, Toronto, Ont., 8th August, 1882; (extension of patent No. 7754.)

No. 15,269. Improvements on Hydrants. (*Perfectionnements aux bornes fontaines.*)

William Dodd and Sullivan C. Andrews, Portland, Me., U. S., 8th August, 1882; (extension of patent No. 7743.)

No. 15,270. Improvements on Syrups, Mineral Waters, etc. (*Perfectionnements aux sirops, eaux minérales, etc.*)

Horace L. Bowker, Boston, Mass., U. S., 8th August, 1882; (extension of patent No. 7749.)

No. 15,271. Improvements on Laundry Tables. (*Perfectionnements aux tables de blanderie.*)

William Dicer, Marrengo, Mich., U.S., 9th August, 1882; for 5 years.

Claim.—1st. The combination, with the board *D*, of the hinged leg *L* provided with the projecting pins *a a*, the screw threaded rods *a* having the hand nuts *d d*, and the clamping levers *I* rigidly connected together at their rear ends by a cross bar *N*. 2nd. The combination, with a laundry table having clamping levers *I*, of the rod *b* having screw threaded ends, hand nuts and blocks *G G*, base board *C* provided with the inclined jaw *B* and cleat *E*, and the bosom board *A* hinged to said cleat and bevelled at its inner end and provided with the cleat *F*.

No. 15,272. Improvement on Sediment Collectors for Steam Boilers. (*Perfectionnements aux collecteurs des dépôts dans les chaudières à vapeur.*)

David Hanna, Ogdensburg, N. Y., U. S., 9th August, 1882; for 5 years.

Claim.—1st. In combination with a sediment collecting basin arranged within a boiler, the nozzle *B* having an upper and under conical plate, the latter provided with graduated openings connected with the supply pipe of the boiler and with or without blow-off cock *bx*. 2nd. In combination with a springing nozzle or other feeding device discharging into the steam space, thereof, the funnel or basin *C* having the blow-off pipe *C* and valve or cock *bx*. 3rd. The combination in a steam boiler, of the nozzle *B* consisting in an upper conical imperforate plate *A* and an under conical plate *A* provided with perforations increasing in size from the centre towards its periphery, having feed-water pipe *a* and discharging into the steam space, with the pan or collector *C* and blow-off pipe *C*.

No. 15,273. Device for Converting Reciprocating into Rotary Motion. (*Appareil pour convertir le mouvement alternatif en mouvement rotatoire.*)

Absalom G. Smyth, Hamilton, and John Smith, Brantford, Ont., 9th August, 1882; (extension of patent No. 7753.)