No. 16,208. Improvements on Reapers.

(Perfectionnements and moissonneuses.)

John Bell, Woodford, Ont., 25th January, 1883; for 5 years

John Bell, Woodford, Ont., 25th January, 1883; for 5 years—Claim.—1st. The combination of the standards F Ft, stationary cam C consisting of the parts celescal and ct, driving pinion W1, crown wheel W to which are pivoted the rake stems Rt R2 R3 R3 and carrying the rake sockets R, the spindle S carrying thumb pinion P, the spindle S1 carrying the cam Ct, and the tripping pinion P1 regulated by the lever L by means of the collar P2, tripping lever T, slide bar B B1, bell crank lever M, lever N, stop catch E and notch bar L. 2nd. The combination of the cam c, cam c5, cam b, lever N on spindle S, and crown wheel W carying the rake sockets Rt R2 R3 R4. 3rd. The combination of the standard F, notch bar L1, lever L collar P2, pinion P and cam ct on spindle S3, 5th. The combination of the spindle S3 and S1, the former carrying the crown wheel W and the thumb pinion P, giving motion when desired to the tripping pinion P1 feathered upon the spindle S1 and thus moving the double beat cam C1 also feathered upon the said spindle to allow the single or double beat to be brought into action. 6th. The comstruction of the tamb pinion F imparting motion to the pinion P4, if desired, so as to cause the 2nd 3rd or 4th rake to be tripped. 7th. The combination of the cam c1, tripping lever T, slide B with arm B1, bell crank lever M with weight M1, counterbalanced lever N having arm n and stop catch E. Sth. The construction of the main cam C, having groove c with rim c1, opening or gate c5, incline c3, guide piece c4 and lever arm n.

No. 16,209. Improvements on Bolt Cutters.

(Perfectionnements aux découpoirs des boulons.)

Alexander R. Duff and Peter Lewis, Oneida, N.Y. U.S., 25th January, 1983; for 5 years.

Cloim.—1st. The combinatian of an open frame A having its two sides rigidly connected together a stationary enter B secured therein, a movable cutter B extending across the frame and having its opposite edges fitting in guides in the sides of the frame, two levers E pivoted together and to the stock of the movable cutter, and links F connecting said levers with the two sides of the frame. 2nd. The combination of the frame A, the cutter B fitted toguides in the frame, the screws C D, the cutter Bi, the levers E and the links F pivotally connected to the leaves and frame. connected to the levers and frame.

Billiard No. 16,210. Improvements on Tables. (Perfectionnements and tables

Charles W. Allen and Thomas G. Cowgill, Pine Ridge Agency, Dakota, U. S., 25th January, 1883; for 5 years.

ta, U.S., 25th January, 1883; for 5 years.

Claim.—1st. The combination with the bed B and cloth i, of the clears C provided with rabbets. 2nd. The combination, with the bed B cloth i and clears C, of the cloth covered bars D and screws d. 3rd. The combination, with the clears C provided with the screw-threade I ugs f, and the base G provided with the groove g, of the rod H provided with a right hand and a left hand thread. 4th. The end cloth holding clears adapted for lateral movement and provided with diagonally placed brace bars, adapted to act in grooves of the side cloth holding clears, whereby both side and end clears may be simultaneously spread to stretch the cloth over the bed. 5th. The end clears C provided with screw-threaded lugs f and diagonally-placed brace bars E, and side clears C having scals c to receive the bars E, and the right and left screw H combined for operation. 6th. The combination, with the frame A and bed B and the devices connected therewith, of the base G provided with the semi-circular bars J Jz. 7th. The combination, with the semi-circular bars J Jz. 7th. The combination, with the arms K K. having grooves in their ends, of the spherical segment or bow-shaped skeleton frame L provided with the france I sufficient or bow-shaped skeleton frame G provided with the flange I. 9th. The combination, with the base G bars J Jz, arms K K. skeleton frame or bow L, of the arms washer n and nut P.

No. 16,211. Improvements in Harness Pads.

(Perfectionnements aux selletes des harnais.)

Henry J. Bickle and John E. Bridges, Dungannon, Ont., 25th January, 1883; for 5 years.

Claim.—1st. The metallic main plate A of a harness pad constructed with two ribs a(a) on its lower side, four slots a(a) less or more, and an aperture d(a). The pads C C as constructed, in combination with the plate A.

No. 16,212. Roofing Cement.

(Ciment à toitures.)

William L. Maltby, Montreal, Que., 25th January, 1883: for 5 years. Claim.—A roofing cement or paint composed of comminuted asbes-tos, mica and soap stone, mixed with coal tar or other bituminous liquid.

No. 16,213. Improvements on Life Preservers. (Perfectionnement aux appareils de saure(age.)

Eliza R. Cogswell, New York; N.Y., U. S., 27th January 1883: for 15

Claim.—1st. A life preserver of any suitable construction, containing cork or other granulated woody matter, treated with a water repellent. 2nd. A filling for life preservers composed of cork coated with paraffine, to exclude moisture and air. 3rd. The combination of a filling composed of cork coated with paraffine and an enclosing integument, itself made air and water proof by coating or impregnating with paraffine. 4th. A series of connected pouches rendered water

and air proof by being coated or impregnated with parafine and filled with cork, which is coated with paraffine, to exclude moisture and air. 5th. A life preserver comprising, as its essential element, one or more pouches Bt rendered water and air proof by being coated or impregnated with paraffine and enclosing a filling composed of cork in a granular or fragmentary condition, the fragments or granules of the cork being coated with paraffine. 6th. The combination, with a jacket B having pockets b, of pouches Br made water and air proof by being coated or impregnated with paraffine, and filled with cork, itself coated with paraffine, to exclude moisture and air.

No. 16,214. Improvement on Car-Couplers.

(Perfectionnement des accouplages des chars.)

Robert Bigney, Capleston, Ont., 29th January, 1883; for 5 years

Chaim.—1st. The combination of the adjusting screw A. provided with wheels A₁ A₂ and collars C U₁ arms B B₁, levers D, collars E E₁ stops R R₁ arm B₂, coupling pin F provided with shoulder G, nut F₁, spring I, guide H, draw-bar K provided with slots K₁, spring J₁, and spring ball J provided with flange J₄ and key J₂. 2nd. The combination of the draw-bar K, keys N N, collars L L¹ L², coil spring O and brace M S. braces M M.

No. 16,215. Adjustable Chain Pump Bucket. (Godet mabile de chapelet.)

Thomas Kenyon, Hamilton, Ohio, U.S., 31st January, 1883; (Extension of Patent No. 8403.)

No. 16,216. Machine for Raising Saw Logs on to the Mill Floor. (Machine pour monter les billats de sciage sur les pavés des

William Hamilton, Peterborough, (Assignee of John Ludgate, Ashburnham.) Ont., 31st January, 1883; (Extension of Patent No.

No. 16,217. Tubular Kerosene Lantern.

(Lanterne tubulaire à kérosène.)

John H. Stone, Hamilton, Ont., 31st January, 1883; (Extension of Patent No. 856.)

No. 16,218. Improvement in Steam Boiler Cleaners. (Perfectionnement dans les nettoyeurs des chaudières à vapeur.)

Allen S. Fisher, Clinton, and William Stitt, Goderich, Ont., (Assignees of John A. Fordon and James F. Thomas, Bay City, Mich., U.S.,) 31st January, 1883: (Extension of Patent No. 8381.)

No. 16,219. Process for Manufacturing Dry Hop Yeast. (Procédé de fabrication de la lecure au houblan sec.)

Andrew B. Burns, Amherstburg, Ont., 31st January, 1883, (Extension of Patent No. 8402.)

No. 16,220. Improvements on Hoisting Machines. (Perfectionnements aux seurs)

John Fensom, Toronto, Ont., 31st January, 1883; (Extension of Patent No. 8380.)

No. 16,221. Improvements on Spring Shade Rollers. (Perfectionnements aux bâtons à ressort des ri leaux.)

Daniel E. Kempster, Boston, Mass., U. S., 31st January, 1883; for 5 years.

years.

Claim.—1st. The slotted roller end c_i with metallic cap c_i in combination with a sliding plate G having a slot with a single notch g in one end only of said slot, and the flat sided portion b11 of the spindle B. 2nd. The plate G having a slot with a single notch g in one end only of said slot. Srd. The spindle B formed with the flat side b11 for preventing the slow rotation of the roller in one direction, in combination with the single notched slotted sliding plate G g. 4th. The combination of the spindle B having the flat side b11, the roller C having end cap E with slotted end c1, metallic cap g and the slotted plate G having a notch g10 none end only of said slot, the several parts being constructed and arranged for conjoint operation. 5th. The combination of the roller having the line of attachment of the shade marked thereon with reference to the notched end of the locking plate with said plate so that when the shade is wholly unwound and permitted to beck the roller may be revolved sufficiently by pulling the shade to release the locking plate and permit the spring to reverse the motion of the roller and wind up the shade. 6th. In a cartain fixture or shade roller, the spindle B with its flat portion b1 arranged parallel with the bracket notches b3 b4, in combination with the lip b or means for holding said spindle right side up, when the roller is in its bracket.

No. 16,222. Improvements in Car Couplings.

(Perfectionnements aux joints des tuyaux.)

William Martin, Tidionte, Penn., U.S., 31st January, 1883; for 5 years.

Claim.—1st. The pipe A provided with a ball B, and a pipe D provided with a hemispherical shell C combined with an encasing shell and a nut H. 2nd. The screw-threaded pipe A having a ball B, and a pipe D having a hemispherical shell C combined with a divided encasing shell F G and nut H. 3rd. A pipe coupling, composed of the