No. 4371. GEORGE T. D. BARNJUM and WILBEUR F. DIAL, Montreal, Que., 8th February, 1875, for 5 years: "Speed Motion." (Mouvement de vélocité.)

Claim.—1st. The combination of the pulley *a*, with clutches *c*, *c*, having hub *n*, projections *o*, arms *p*, pivots *q*, pins *r*, and raw hide *s*, as described; 2nd. The combination of the four straps *e*, *e*, *e*, *e*, with the treadles f_1 and f_2, and bar *g*, as described.

No. 4372. MAURICE AHEARN, Ottawa, Ont., and MAURICE WALSH, Quebec, Que., 9th February, 1875, for 5 years: "Bread Slicer." (Découpeur de pain.)

Claim.—The triangular frame A, the race block E, lever B, or frame *a*, and knife C, lifting horizontally, as set forth.

No. 4373. TOBIAS WITMER, Buffalo, N.Y., U.S., 9th February, 1875, for 5 years: "Slicing Machine." (Machine à trancher.)

Claim.—1st. The combination of the cutter C, and gauge board I, when arranged so that its upper surface will always be in a line parallel to the surface of the cutter at any point of its vertical adjustment in the manner described; 2nd. The combination of the handle M, cams J, J, arms N, and gauge board I, all working together as set forth; 3rd. The grooved frame B, in combination with the cutter C, screws G, pins B_1, and hooks B_2; 4th. The combination of the grooved frame B, cutter C, and sliding box E; 5th. The jointed part B_3, hook B_4, or its equivalent and leg R, in combination with a slicing machine as described

No. 4374. CHARLES C. MOORE, Elizabeth, N. J U. S., 9th February, 1875, for 5 years: "Chewing Gum Candy." (Candi gomme à mâcher.)

Claim.—A confection consisting of molasses or sugar candy and chewing gum combined for the purposes set forth.

No. 4375. WILLIAM MUIR, Montreal, Que., 9th February, 1875, for 5 years: "Improvements on Hoistways." (Perfectionnements aux élévateurs.)

Claim.—1st. In combination with any hoistway provided with sliding doors, the rock shaft C, carrying lever E, engaging with stops K, and arm F, with or without roller G, acted upon by inclined planes I, as set forth; 2nd. The combination of the rock shaft C, with arm F, (with or without roller G,) acted upon by inclined planes I, and lever E, acting by arm M, upon the doors, swinging outwardly, of any hoistway as set forth.

No. 4376. EDWARD P. FURLONG, New York, U. S., 9th February, 1875, for 5 years: "Improvements on Collars and Cuffs." (Perfectionnements aux faux-cols et poignets.)

Claim.—1st. The combination of two or more folds of different curvature, or in opposite directions in collars and cuffs, whereby the same are given the desired shape and strength, as set forth; 2nd. A paper cuff or collar having a curved edge turned in on the convex side of the crease *c*, made for turning the same by stretching the part *c*, inside the said crease, and shrinking or contracting the part *b*, on the outside of said crease, as described.

No. 4377. ERASTUS WOODWARD and EDWARD D. GOODSON, Boston, Mass., U. S., 9th February, 1875, for 5 years: "Eyeleting Machine." (Machine à poser les œillets.)

Claim.—The rocker shaft L, provided with the bifurcated feeding pad *l*, and operated by the vertical arm of the crank lever P, in combination with the lever P, the vertical shaft E, carrying the adjustable arm J, on which is fitted the punch K, the horizontal bar I, and the lever H, all constructed and operated as set forth; 2nd. The rocker shaft L, provided with the feeding pad *l*, the bell crank lever P, vertical shaft E, adjustable arm J, and horizontal bar I, in combination with the stud Q, working in the slotted standard R, and movable carriage B, as set forth; 3rd. The shaft C, provided with the eccentric *p*, and nut D, for moving and securing the carriage B, on the bed A, as specified; 4th. The pipe *v*, in combination with the piston in the head of the hollow standard R, as set forth; 5th. The shaft G, cam wheels T, F, and pivoted levers *f*, H, combined with the punch-shaft and set stock, to operate as set forth; 6th. The hollow slotted standard R, having a piston rod provided with the stud Q, the lever P, arm I, spring *s*, and shaft E, combined to operate as set forth.

No. 4378. ALFRED EDWARDS, New-Haven, Ct., U. S., 9th February, 1875, for 5 years: "Improvements on Wooden Shoes." (Perfectionnements aux sabots.)

Claim.—1st. A clog or patten constructed of two wooden parts fastened together one over the other, as set forth; 2nd. The elastic ankle guard E, in combination with a wooden shoe or patten as specified; 3rd. The clog or patten described having the two wooden parts A, B, secured one above the other by the fastenings and having the lining D, and ankle guard E, combined therewith for the purposes set forth.

No. 4379. EDWARD WASELL, London, Ont., 9th February, 1875, for 5 years: "Improvements in Trusses for Bridges and Roofs." (Perfectionnements aux travées de ponts et de toitures.)

Claim.—The combination of the iron or steel rails, of the same description as those used upon and forming part of the superstructure called the track of rail-ways, in such a manner as to form the chords or booms A, and B, and the posts and braces C, of trusses similar and of the same description as those illustrated in Figs. 1 to 9, as set forth.

No. 4380. OWEN EVANS, Halifax, N S., 11th February, 1875, for 5 years: "Fret Saw-frame." (Scie à découper.)

Claim.—The combination of spring F, in conjunction with tenon and mortice joint with double bevelled shoulders H, working on pivot C, and auxiliary rubber band I, as set forth.

No. 4381. SALEM T. LAMB, New-Albany, Ind., and BENJAMIN F. AVERY, Louisville, Ky., U. S., 11th February, 1875, for 15 years: "Nut-lock and Washer." (Ecrou et rondelle de sûreté,)

Claim.—In combination with a bolt and nut, a lock plate washer *a*, having an external rim *c*, and a series of fingers *c*, attached thereto and projecting therefrom toward the nut in a direction oblique to the centre of the nut as described.

No. 4382. WILLIAM MUIR, Montreal, Que., 11th February, 1875, for 5 years: "Improvements on Hoistways." (Perfectionnements aux élévateurs.)

Claim.—1st. The combination of the door B, hinged stops C, and bars F, working in combination with the projections D, attached to the travelling platform of any hoistway, and with the projection N, as described; 2nd. The combination of the rest K, and pivoted levers L, with arms L_2, for the purpose of retaining in a raised position the doors sliding upwards of any hoistway, and the inclined planes M, secured to the travelling platform E, to reverse this action and allow the doors to fall, as described: 3rd. The travelling platform E, provided with springs or hinged bars O, engaging with projections H_2, on weights H, and acted upon by projections P, as described

No. 3835. JOHN AIKMAN, Norwich, Ont., 11th February, 1875, for 5 years: "Portable Feeding-fence for Pasture Fields." (Clôture mobile d'enclos à pâturage.)

Claim.—The combination and arrangement of the several parts, namely: the fence rails A, and the standard arms B, working on the joint irons C, in connection with the screw D, and the flange E, for the purpose of a revolving feeding fence all operating as set forth.

No. 4384. THOMAS A. RISHER, Kansas, Mo., U. S., 11th February, 1875, for 5 years: "Steam Engine." (Machine à vapeur)

Claim.—The combination of the cylinder A, provided with the annular steam passage B, constructed as described, two or more movable pistons G, G_1, packing *i*, and two or more steam-chests having ports and valves, as described.

No. 4385. OREN BALDWIN, Keokuk, Iowa, U. S., 11th February, 1875, for 10 years: "Combined Radiator and Damper for Stove-pipes, &c." (Radiateur-clef pour les tuyaux de poeles, &c.)

Claim.—1st. A hollow damper H, having an extension at each end, in combination with a radiator having partitions or walls E, E_1, on its inside to form passages for the smoke, all made as set forth: 2nd. The combination of a hollow damper H, and a radiator, the parts being arranged as shown, whereby the damper wil