

constructed as set forth, having a rabbeted edge D, to receive the upper pulley therefor, as described.

No. 3421. HENRY L. GOOCH, East-Machias, Me., U. S., 11th May 1874, for 15 years: "Shingle Machine." (Machine à bardeau.)

*Claim*.—1st. The combination of a vertically revolving circular saw and swinging carriage for holding the bolt; 2nd. The eccentric gear wheels *a*, *a'*, interposed between the swinging carriage B, and the power for operating the same for the purpose of giving to said carriage an alternate fast and slow motion; 3rd. The combination with the moveable clutch *h*, of the pin *i*, and stop K; 4th. The combination of the rollers L, I, in the swinging carriage B, the double spur wheels *m*, *m*, pawl *n*, lever *k*, with roller *x*, and the inclined groove *y*, all as set forth.

No. 3422. CHARLES H. SMITH, Faribault, Min., U. S., 11th May, 1874, for 5 years: "Improvements on Machines for Sawing Wood." (Perfectionnements aux machines à scier le bois.)

*Claim*.—1st. The knives *h*, in combination with the saws E; 2nd. The combination of the chutes T, with the saws E, and elevator S; 3rd. The combination of the wood rake M, endless carrier saws E, and elevator S, with the moveable platform A as specified.

No. 3423. MOSES C. CLARK, Ingersoll, Ont., 11th May, 1874, for 5 years: "Improvements on Bed-Springs." (Perfectionnements aux ressorts de lit.)

*Claim*.—The double coiled spring A, A, of a tapering shape formed of one continuous wire in combination with the staple C, as set forth.

No. 3424. JAMES L. GREGORY, St. Louis, Mo., U. S., Assignee of WILLIAM REDHEFFER, 11th May, 1874, for 5 years: "Improvements on Egg Beaters." (Perfectionnements aux fouets à œufs.)

*Claim*.—The reciprocating egg beater composed of the covered receiver, and the beater consisting of several hollow perforated frustrums of cones as described.

No. 3425. SETH B. SCOTT, Montreal, Que., 11th May, 1874, for 5 years: "Improvements on Variable Speed Motions." (Perfectionnements aux mouvements variables de vitesse.)

*Claim*.—1st. The discs *c*, and *e*, in combination with the pulleys *f*; 2nd. The pulley or pulleys *f*, arranged as described in combination with lever or levers *l*; 3rd. The pulley or pulleys *f*, and discs arranged as described in combination with brake *n*.

No. 3426. FRANCIS W. BECKWITH, and PATRICK KYLE, Merrickville, Ont., 11th May, 1874, for 5 years: "Improvements on Washing Machines." (Perfectionnements aux machines à laver.)

*Claim*.—1st. The caps E, E, pivoted concentrically to the end frame A, and receiving the ends of the rollers D, D, and their axial pins and connected together by the spring H; 2nd. The combination of the end of the frame A, having vertical slots F, *i*, and caps E, E, having elongated holes F, *i*, for receiving the axial pins of the rollers D, D, to allow the caps by the pressure of the spring H, to have a concentric movement; 3rd. The caps E, E, provided with fender arms I, as described.

No. 3427. FREDERICK DANGERFIELD, Merrickville, Ont., 11th May, 1874, for 5 years: "Improvements on Washing Machines." (Perfectionnements aux machines à laver.)

*Claim*.—The application of the pins E, and springs D, the ends of the springs forming the bearings for supporting the journals of the rollers B, B, as set forth.

No. 3428. ARTHUR CARLETON and WILLIAM F. NUFER, Whitenall, Mich., U. S., 11th May, 1874, for 5 years: "Improvements in Clothes Racks." (Perfectionnements aux Porte-manteaux.)

*Claim*.—A clothes rack composed of parts A, D, H, J, L, and O, as set forth.

No. 3429. AUSTIN BERRY, Shefford, Que., 11th May, 1874, for 5 years: "Machine for Milking Cows." (Machine à traire les vaches.)

*Claim*.—The tank or reservoir A, the stop cock B, the metallic tube C, and catch spring D, and the combination for working the same in the manner set forth.

No. 3430. GEORGE WESTINGHOUSE, Jr., Pittsburgh, Penn., U. S., 11th May, 1874, for 15 years: "Machine for Checking, Retarding and Stopping Railway Locomotives." (Frein de locomotive de chemin de fer.)

*Claim*.—1st. A segmental lever *c*, having an eccentric face, in combination with the brake block shoe or clasp to which it is pivoted; 2nd. The segmental levers *c*, having in their working faces the eccentricity desired for giving the required motion to the brake shoes, and in combination therewith, and in each other, as set forth; 3rd. One or more segmental levers *c*, with suitable connections to and in combination with a brake cylinder *b*, as set forth.

No. 3431. WILLIAM GREEN, Hyde, Eng., 12th May, 1874, for 5 years: "Improvements in Automatic Couplings for Railway and other Carriages." (Perfectionnements aux attelages automatiques des voitures de chemins de fer et autres.)

*Claim*.—Arranging a hook B, in the form of an arm or lever that is constructed to turn upon a fulcrum fixed to the spring draw bar A, or end of a railway or other carriage, and taking a line of movement parallel or nearly so with the horizon, that is to say, the bend of the hook B, and the movement thereof are lateral or sideways, such hook being held in position by means of a spring E, or weight thus forming an automatic coupling that has for its apparatus at one end a counterpart of that which is at the other end of the vehicle in manner described.

No. 3432. GUSTAVE A. DANET and XAVIER C. E. FEUILLANT, Paris, Frce., 12th May, 1874, for 5 years: "Improvements in the Process of Preserving Animal and Vegetable Substances." (Perfectionnements dans le procédé de conservation des substances animales et végétales.)

*Claim*.—The improved process of preserving animal and vegetable substances or matters by the employment of slight desiccation combined with water tight receptacles filled with an atmosphere of sulphurous acid and air purified by fire as described.

No. 3433. JOSEPH P. WOODBURY, Boston, Mass., U. S., 12th May 1874, for 5 years: "Improvements on Planing Machines." (Perfectionnements aux machines à raboter.)

*Claim*.—1st. The combination of a rotary cutter and a yielding pressure bar or bars as described; 2nd. The combination of a solid bed and a yielding pressure bar or bars for the purpose of holding down the material while being acted on by the cutters; 3rd. The combination of a solid bed, a rotary cutter and a yielding pressure bar or bars; 4th. The combination of the two pressure bars one of which is supported upon arms and the other upon springs as described.

No. 3434. GEORGE SELFRIDGE, St. John, N. B., 13th May, 1874, for 5 years: "Improvements on Harness." (Perfectionnements aux harnais.)

*Claim*.—The span B, B, with ring A, on one end for body or breeching to be sewed into, and ring D, in the other end to be sewed into breeching body. C, the metallic plate with two raised loops and centre pin to retain the hip strap, hinge E, connecting plate C, with span B, B, as set forth.

No. 3435. GEORGE FORSYTH, Seaforth, Ont., 13th May, 1874, for 5 years: "Manufacture of Portable Wire Fences." (Fabrication des clôtures mobiles en fil métallique.)

*Claim*.—The arrangement of the panels A, the upper brace G, the lower brace D, and the post or stake E, and the mode of setting up the fence as set forth.

No. 3436. DARERICK ALLARD, St. Albans, Vt., U. S., 12th May, 1874, for 5 years: "Improvements on Locomotive Smoke Stacks." (Perfectionnements aux cheminées de locomotives.)

*Claim*.—1st. The combination of the enlarged extension *b*, inverted cone *d*, and *p*, and frustrums *c*, *i*, and *f*, all working together as described; 2nd. The enlarged extension *b*, inverted cone *d*, cones *c*, and *p*, frustrums *c*, and *i*, in combination with perforated pipe *n*, all working together as described; 3rd. The combination of the enlarged extension *b*, inverted cones *d*, and *c*, cone *p*, and frustrums *f*, cones *i*, and *c*, all working together as described; and 4th. The enlarged extension *b*, inverted cones *d*, and *c*, cone *p*, and frustrums of cones *i*, and *c*, in combination with perforated pipe *n*, all working as described.