

No. 9973. Improvements on Spiral Springs.

(*Perfectionnements aux ressorts spiraux.*)

George E. Gray and Chester W. M. Smith, San-Francisco, Cal., U. S., 17th May, 1879, for 5 years.

Claim—1st. A spiral spring, constructed of any suitable material, of a conoidal form, with the diameters and pitches of the different coils and the cross section of the material used, of such size and so proportioned to each other that a sliding and expanding action of the coils upon and within each other takes place when the spring is compressed. 2nd. In a spiral conoidal spring, the arrangement of the coils one above the other, in such position that the outer surface of one coil shall be over and in line with the inner inclined surface of the next larger coil below, whereby when compression takes place these two surfaces shall come in contact and the larger coil shall be expanded by the smaller one next above or within it. 3rd. In combination with the spiral conoidal spring A, the conoidal bed plate B of the shaft.

No. 9974. Composition for Preserving Meat, etc. (*Composé pour conserver la viande, &c.*)

Theodore A. Ellis, Frederickton, N. B., 19th May, 1879, for 5 years.

Claim.—A compound of calcined alum, sugar, sal-soda, nitrate of potash, bicarbonate of soda, salt, alcohol and water, the whole mixed.

No. 9975. Medical Compound for Hog Cholera. (*Composé médical pour le cholera des porcs.*)

George S. Williams, Eggleston's Springs, Va., U. S., 26th May, 1879, for 5 years.

Claim—A decoction of peach leaves and smart-weed leaves, soft soap, coppers, sulphur and spirits of turpentine.

No. 9976. Improvement in Plush Goods.

(*Perfectionnement aux étoffes peluchées.*)

Thomas Goodall, Sanford, Me., U. S., 26th May, 1879, for 5 years.

Claim—The nap or plush fabric, formed from loosely twisted yarns or threads and having the fibres that form the nap or plush held in place, by means of a coating of adhesive cement applied to the back of the fabric.

No. 9977. Improvements in Cider Mills.

(*Perfectionnements aux moulins à cidre.*)

Thomas Cuthbertson, Bright, Ont., 26th May, 1879, for 5 years.

Claim.—1st. The combination of the apple hopper, grinding cylinder and pulp conveyor; 2nd. The conveyor D and band D, in combination with one or more pairs of spring pressure rolls. 3rd. The corrugated pressure rolls, arranged in mesh with each other and adjustably mounted in connection with springs, in such manner that as the apple pulp is fed between them, it will be subjected to pressure and a grinding action; 4th. The corrugated pressure rolls provided with hies c; 5th. The combination of the frame springs G, bearing pieces H H, bolts J, and the pressure rolls; 6th. In combination with the pressure rolls and conveyors, the hoppers collecting vat F provided with rock F; 7th. The conveyor L, in combination with the cone or D; 8th. The combination of the hopper B, cylinder C, conveyor D, band D, spring pressure rolls E E and the vat F, for the purpose of extracting cider from apples in one continuous operation.

No. 9978. Combination Table and Box.

(*Table et boîte combinées.*)

James E. W. Currier, Ottawa, Ont., 26th May, 1879, for 5 years.

Claim—1st. The combination of the boards G H I J with hinges, together with the application of the dove tail B B and stiffening bars C C. Also the cleats A A for holding end of box. 2nd. The device D D D, having two slots and two inclines opposite each other, for holding the legs of table in position through the action of the pin M; 3rd. A box composed of the parts G H I J hinged together, having dove-tail cleats B B, across the centre, and cleats A A at each end, and folded up and provided with ends E E, inserted in the cleats A A; 4th. The inside box which can be used instead of the ends E; 5th. A leg for table, composed of the part K fitted with ferrule L and pin M.

No. 9979. Mill for removing the Germ and Mill of Wheat. (*Moulin pour enlever le germe et les particules du blé.*)

Samuel Potts, Minneapolis, and Arvid Parson, Stillwater, Min., U. S., 26th May, 1879, for 5 years.

Claim—1st. The mode of preparing wheat for flour making, by removing the germ and the fuz from the ends of the kernels before grinding; 2nd. Mill-stones made of the rock known as hard heads or boulders; 3rd. A mill-stone dress formed by boring holes in the face of the stone. 4th. The combination, with the upper stone or runner B, of a three armed driver D rigidly attached to the spindle C.

No. 9980. Method and Apparatus for Preventing Colliery Explosions. (*Méthode et appareil pour empêcher les explosions dans les houillères.*)

William Young, Belfast, Ireland, 26th May, 1879, for 5 years.

Claim—1st. Coating the surfaces of the coal or cuttings in coal mines, and the surfaces of the wood supports and lining therein, with a wash of alum and clay or other equivalent non inflammable coating; 2nd. The construction and employment of the improved instrument, for ascertaining the presence and proportion of gas in coal mines, by means of a vertical column of gas from the mine contained in a pipe up the shaft of the mine.

No. 9981. Apparatus for Dressing Middlings.

(*Blutoir à broses pour les gruaux.*)

Abraham Cumbtree, Bacup, England, 26th May, 1879, for 5 years.

Claim.—1st. The combination, with a revolving silk or cylinder, of an internal revolving beater, propelled at a greater rate of speed than said cylinder, and a flat revolving brush for cleaning the outside of the silk; 2nd. The revolving cylinder, constructed with any suitable number of rims connected together by longitudinal bars or rods h h and having the silk s stretched thereon by inserting its outer edges in annular grooves formed in the end rims g g, these edges being first tied and then secured in place by hoop k k drawn tight by means of screws, the inner edges being provided with eyelet holes laced together and the joint covered; 3rd. The internal revolving beater, constructed with a series of narrow drums or wheels l l having the beaters or distributors m m, attached on their circumference at an angle to the shaft with their outer edges bent again on an angle; 4th. The flat revolving brush n n.

No. 9982. Improvements on Hanger Bolts for Fire-Escapes. (*Perfectionnements aux crochets pour les sautoirs d'incendie.*)

Daniel F. Gallaher, Stanstead, Que., 26th May, 1879, for 5 years.

Claim 1st. The larger bolt A, passing through the pipe e transversely inserted in the wall, and carrying the nut d, hook c and hook b; 2nd. The combination of the pipe e with a bolt A.

No. 9983. Improvements on Machines for Cleaning Straw. (*Perfectionnements aux machines à nettoyer la paille.*)

James Coleman, Hollis, Ont., 26th May, 1879, for 5 years.

Claim.—The upper and lower series B C, perforated and connected together and suspended by the hangers D to the frame A.

No. 9984. Improvements on Rock Drills.

(*Perfectionnements aux forêts de mines.*)

Jonathan Neff, Petersburg, Ont., 26th May, 1879, for 5 years.

Claim—1st. The steam passage O and grooves G G; 2nd. The valve cushion H, sleeve M and screw V.

No. 9985. Manufacture of Boots and Shoes.

(*Fabrication des chaussures.*)

Elbridge Mann, Milford, Mass., U. S., 26th May, 1879, for 5 years.

Claim—Making up the boot or shoe from uncurried leather and then bringing the leather to a curried and finished condition during the subsequent operation of treading.

No. 9986. Improvement in Drying Rolls for Plush Goods. (*Perfectionnement aux rouleaux de séchage pour les étoffes peluchées.*)

Thomas Goodall, Sanford, Me., U. S., 26th May, 1879, for 5 years.

Claim.—The shafts c c c with their pulleys, the pulley e, pulley f, friction pulleys g and pulleys h with their feeding shaft i and with the band d.

No. 9987. Improvements on Clothes Driers.

(*Perfectionnements aux sècheurs à l'usage.*)

Richard E. Rye, Mount-Pleasant, Mich., U. S., 26th May, 1879, for 5 years.

Claim.—The cylindrical recessed cap G, and the pulley i and its shaft, the latter having its bearing in opposite sides of said cap, in combination with the hollow cylindrical post A having open slots a a which the pulley shaft enter i and traverses when the cap is applied to the post the revolving frame H I, annular bearing m n, rope h and winding drum F.

No. 9988. Improvements in Snow-Shoes.

(*Perfectionnements aux raquettes.*)

Everett Smith, Portland, Me., U. S., 26th May, 1879, for 5 years.

Claim.—1st. The combination of a snow-shoe and slipper, 2nd. In combination with a snow-shoe, the slipper A and swivel.

No. 9989. Improvements on Bakers' Ovens. (*Perfectionnements aux fourneaux des boulangers.*)

George Grieve, Palmyra, N. Y., U. S., 26th May, 1879, for 5 years.

Claim.—1st. The air passages o through the crown of the furnace, a rod damper plate D provided with the apertures ot, ribs r and lug l, rod h and screw e. 2nd. The combination of the air passages o, damper plate D, having apertures ot, ribs r and lug l, regulating rod h and screw e with the furnace F, walls B and door way R.

No. 9990. Improvements on Harvesters.

(*Perfectionnements aux moissonneuses.*)

Henry A. Howe, Detroit, Mich., U. S., 26th May, 1879 (Extension of Patent, No. 3509), for 5 years.

No. 9991. Improvements on Thrashing Machines. (*Perfectionnements aux machines à battre.*)

James Bradley and James Nicholas, Gomer, Ohio, U. S., 26th May, 1879 (Extension of Patent, No. 3504), for 5 years.

No. 9992. Improvements in Heating Stoves. (*Perfectionnements aux poêles de chauffage.*)

John W. Elliott, Toronto, Ont., 26th May, 1879 (Extension of Patent, No. 3479), for 5 years.