

**No. 16,257. Improvements on Seals for Car Doors.** (*Perfectionnements aux fermetures scellées pour les portes des chars.*)

Edward J. Brooks, New York, N. Y., U. S., 2nd February, 1883; for 5 years.

*Claim.*—1st. A shackle wire constructed with anchoring enlargements integral therewith and having detector indentations formed in the same end or ends of the wire to indicate any shortening of the shackle. 2nd. A shackle wire, having one end constructed with anchoring enlargements integral therewith and its other end indented, in combination with a seal disk of soft metal, cast on said indented end and having a threading hole formed partly by a semitubular projection on the back of the disk, to receive the shackle end first named. 3rd. A metallic seal composed of a shackle wire, a seal disk fast on one end of said wire and adapted to receive its other end and to secure the same, when pressed, and a labelling tag attached to the first named end of said wire above the seal disk.

**No. 16,258. Improvements on Cooking Stoves, Ranges and Ovens.** (*Perfectionnements aux poêles, landiers et fourneaux de cuisine.*)

Maryann Kinleyside and Mary Wilson, Hamilton, Ont., 2nd February, 1883; for 5 years.

*Claim.*—In combination with an oven, the shield A containing a thermometer tube, having a hollow inverted cone F at its lower end with a perpendicular slot down its centre, said tube extending from the shield into the oven in such a way that the temperature of the oven may be indicated on the outside of said shield.

**No. 16,259. Improvements on Rope Serving Machines.** (*Perfectionnements aux machines à fourrer les câbles.*)

Alexander F. Downie, (co-inventor with John H. Nute,) and George F. Downie, New Glasgow, N. S., 2nd February, 1883; (Extension of Patent No. 15,429.)

**No. 16,260. Improvements on Rope Serving Machines.** (*Perfectionnements aux machines à fourrer les câbles.*)

Alexander F. Downie, (co-inventor with John H. Nute,) and George F. Downie, New Glasgow, N. S., 3rd February, 1883; (Extension of Patent No. 15,429.)

**No. 16,261. Improvements in Gas Motor Engines.** (*Perfectionnements aux machines à gaz.*)

Herbert Sumner, Thomas Asbury, William Lees and Richard W. B. Sanderson, Manchester, Eng., 3rd February, 1883; for 5 years.

*Claim.*—1st. Operating the inlet and outlet valves by two cams on one movable boss so arranged that the action of the two valves can be adjusted for backward and forward motion of rotation of the engine. 2nd. The use, in conjunction with reversible inlet and outlet valves, of an igniting slide operated by an eccentric capable of adjustment to accord with the action of the said valves so as to bring the igniting slide into operation at the proper times for forward and backward motions of the engine. 3rd. Projecting the igniting flame into the working cylinder by causing the small portions of the compressed combustible charge from such cylinder to pass directly across the igniting flame opposite the entrance of the cylinder post. 4th. Operating the vertical slide (for igniting) N, and inlet and outlet valves B and M by the side shaft J (below the centre line of the cylinder) and wheels P.

**No. 16,262. Improvements on Putting-out Machines.** (*Perfectionnements aux machines de dégraissage des peaux.*)

Joseph W. Vaughn, Peabody, Mass., U. S., 3rd February, 1883; for 5 years.

*Claim.* 1st. A pair of yielding rollers provided with flanges or threads, for scraping or stretching the hide or skin, and adapted to revolve in opposite directions in such a manner as to oppose the passage of the skin between the same when in contact therewith, and a holder or carrier for the hide or skin, which holder passes between said rollers in presenting the hide or skin to the action of the same, in combination with mechanism for operating said rollers and holder. 2nd. The combination of the following instrumentalities, to wit: a pair of yielding rollers provided with flanges or threads for scraping or stretching the hide or skin, a movable holder or carrier, for holding and presenting the hide or skin to the action of the rollers, a shipping device for reversing the movement of the holder or carrier, after it has presented the hide or skin to the action of the rollers, a shipping device for reversing the movement of the holder or carrier, after it has presented the hide or skin to the action of the rollers, and a treadle or device for increasing the pressure of the rollers on the hide or skin, at the will of the operator of the machine. 3rd. The rollers B C suspended in the swinging lugs Q, in combination with the levers R S. 4th. The bars x ff, in combination with the levers R S and rollers B C. 5th. The combination of the bars x ff, cord 22 and shipping lever 30, for automatically shipping the belt P and reversing the movement of the holder or carrier W. 6th. A holder or carrier for the hide or skin, which is wedge-shaped in cross-section. 7th. The holder or carrier W provided with an elastic covering which yields slightly when the rollers act upon the hide or skin, and thereby assists in preventing injury to the stock. 8th. The holder W provided with the racks g, in combination with the pinions h, shaft j and operative mechanism. 9th. The projections or bars 27, in combination with the bars x ff, cord 22, shipping lever 30, and operative mechanism. 10th. The projections or bars 27, in combination with the bars x ff, levers

R S, rollers B C and operative mechanism. 11th. The treadle shaft z provided with the lever or arm r and cord m, in combination with the swinging lugs Q and rollers B C. 12th. The shaft D, bars x ff, rollers B C, shaft J, holder or carrier W, and their operative mechanism arranged in the frame work A, in the relative positions described and as shown in fig. 1, whereby the machine is rendered more compact and the various parts are enabled to perform their functions to the best advantage. 13th. The rod 50 for connecting the levers R S at one end of the machine with those at the other, thereby enabling the levers to be operated in unison by the handle T. 14th. A carrier or holder for the hide or skin having two tables arranged opposite each other or back to back, in such a manner that a part of the hide or skin will rest on one of the tables and a part on the other, and be simultaneously operated on by the mechanism for scraping, stretching, or putting out the same. 15th. The bars x ff, levers R S and cross connecting shafts 50, combined and arranged to operate with the rollers B C. 16th. The rollers B C provided with corresponding threads or flanges 45, but so arranged in the machine, by reversing the position of one of the rollers, that said threads run in opposite directions, whereby the action of the rollers on the hide or skin will be the same on either side thereof. 17th. The roller B provided with the long threads or flanges 45, and short threads or flanges 34, the long threads starting from the central line 35 and passing in a spiral direction around the roller towards its ends, whether said roller is used in a putting-out machine or for any other purpose for which it is adapted. 18th. The roller B provided with the long threads or flanges 45, and short threads or flanges 34, said short threads being arranged to meet alternately on, and at the side of the central line 35, whether said roller is used in a putting-out machine or for any other purpose for which it is adapted.

**No. 16,263. Improvements in Vehicle Springs.** (*Perfectionnements aux ressorts des voitures.*)

Alexander W. McKown, Honesdale, Penn., U. S., 5th February, 1883; (Extension of Patent No. 8406.)

**No. 16,264. Improvements in the Indexing of Books.** (*Perfectionnements dans les index.*)

Charles H. Denison, Bay, Mich., U. S., 5th February, 1882; (Extension of Patent No. 8387.)

**No. 16,265. Improvement on Machines for Dressing Hoops.** (*Perfectionnement des machines à tailler les cercles.*)

Samuel L. Garner, Joseph Bock, Augustus Hunter and Otto Reinke, Cassville, Wis., U. S., 5th February, 1883; for 5 years.

*Claim.*—1st. The combination, with the grooved frame A and the cutter head B, of the slide m, the gauge roller n, the lever o and the weighted lever i. 2nd. The combination, with the frame A and the cutter head B, of the slide m, the gauge roller n, the lever o, the weighted lever i and the set screw l. 3rd. The combination, with the frame A and the cutter head B, of the slide m, the roller n, the lever o, the weighted lever i and the grooved pressure roller k mounted loosely on said weighted lever. 4th. The combination, with the frame A provided with the guide plate h, and the cutter head B, of the grooved pressure roller k, the adjustable gauge roller n and the adjustable fluted feed rollers P P.

**No. 16,266. Improvements on Scales.** (*Perfectionnements aux balances.*)

Franklin Fairbanks, St. Johnsbury, Vt., U. S., 6th February, 1883; (Extension of Patent No. 8942.)

**No. 16,267. Improvements on Sewing Machines.** (*Perfectionnements aux machines à coudre.*)

John K. Harris, Springfield, Ohio, U. S., 6th February, 1883; (Extension of Patent No. 13,378.)

**No. 16,268. Improvements on Sewing Machines.** (*Perfectionnements aux machines à coudre.*)

John K. Harris, Springfield, Ohio, U. S., 7th February, 1883; (Extension of Patent No. 13,378.)

**No. 16,269. Corset and Skirt Supporter.** (*Bretelles de corset et de jupon.*)

Charles W. Higly, (assignee of Moses K. Bortree,) Jackson, Mich., U. S., 7th February, 1883; (Extension of Patent No. 9259.)

**No. 16,270. Improvements in Wire Lines for Fences.** (*Perfectionnements aux fils de fer des clôtures.*)

Angus M. Thom, Montreal, Que., 9th February, 1883; for 5 years.

*Claim.*—1st. The combination of two lines of wires A B, each provided at intervals with interlocking bends G and projecting ends F. 2nd. The combination of a continuous line of wire with a line of wire provided at intervals with interlocking bends G and projecting ends F.

**No. 16,271. Improvements on Reapers.** (*Perfectionnements aux moissonneuses.*)

George Sweet, Samuel D. Faulkner, Dansville, Lebbens Sweet, Wellsville, N. Y., U. S., and John Watson, Ayer, Ont., 10th February, 1883; (Extension of Patent No. 8412.)