

No. 16,966. E. Julien, Montreal, Que., "Stoves for cooking, heating and generating steam," 16th June, 1883.

No. 16,967. F. M. Hurtle, Donagair, Mich., "Vehicle hubs," 16th June, 1883.

No. 16,968. The Smith Manufacturing Company, Delta, Ohio, assignee, "Butter plates," 16th June, 1883.

No. 16,969. J. Carpenter and L. Fitts, Moravia, N. Y., 18th June, 1883.

No. 16,970. J. Draper, Oxford, Alabama, assignee, "Harrows," 18th June, 1883.

No. 16,971. The Whitehead and Atherton Machine Company, Lowell, Mass., assignees, "Condensers for roofing machines," 18th June, 1883.

No. 16,972. The Whitehead and Atherton Machine Company, "Carding machines," 18th June, 1883.

No. 16,973. The Whitehead and Atherton Machine Company, Lowell, Mass., assignees, "Carding machines," 18th June, 1883.

No. 16,974. C. R. Wild, Candalaria, Nevada, assignee, "Grain cleaners, separators and graders," 18th June, 1883.

No. 16,975. G. Nicholson, N. Y., assignee, "Machine for making bale bands," 18th June, 1883.

No. 16,976. The Ruzgles Duplex Oil Cup Company, Kent, Ohio assignees, "Oil cups," 18th June, 1883.

No. 16,977. The Smith Consolidation Company, Chicago, Ill., assignees, "Machines for consolidating loose and bulky material into solid blocks," 18th June, 1883.

No. 16,978. F. Westlake, London, A. Dorenwend, Toronto, Ont., "Automatic machines for cutting and transmitting matches into holders and extracting the matches from the holders after being dipped," 18th June, 1883.

No. 16,979. C. H. Douglas and E. C. Chapin, Chicago, Ill., "Saws," 18th June, 1883.

No. 16,980. C. Moore and G. M. Elliott, Lowell, Mass., "Hammocks and hammock chairs," 10th June, 1883.

No. 16,981. J. Melack and C. H. Anderson, Montreal, Que., "Neck Ties," 18th June, 1883.

No. 16,982. J. H. Doyle, Hillsborough, Ohio, R. A. Holiday, Atlanta, and O. Hope, Hapeville, Georgia, "Oral speculum and cheek and lip distenders," 18th June, 1883.

No. 16,983. J. A. Rouse, East Berkshire, Vt., "Horse power speed regulators," 18th June, 1883.

No. 16,984. J. P. Milbourne, Manchester Eng., "Automatic apparatus for feeding horses and other cattle," 18th June, 1883.

No. 16,985. G. C. Taft, Worcester, Mass., "Drilling machines," 18th June, 1883.

No. 16,986. N. Washburn, Allston, Mass., "Railway car wheels," 18th June, 1883.

No. 16,987. N. St. Pierre, Osceola, Nevada, "Spring bottom oil cans," 18th June, 1883.

No. 16,988. J. Seanlon, Poughkeepsie, N. Y., "Car door fastenings," 18th June, 1883.

No. 16,989. J. R. Burchfield, Sharon, Penn., "Lighting buildings by hydro-carbon lamps," 18th June, 1883.

No. 16,990. G. H. Smith, New York, N. Y., "Method of and apparatus for making and raising salt brine from deep veins," 18th June, 1883.

No. 16,991. F. P. Taber, Auburn, N. Y., "Apparatus for the manufacture of sugar, salt, soap, varnish, and for the boiling and evaporation of any liquid or solution," 18th June, 1883.

No. 16,992. W. Donaldson, Ambleside, Eng., "Hydraulic machinery," 18th June, 1883.

No. 16,993. J. S. Clarke, Detroit, Mich., "Feed water regulators and alarms for steam boilers," 18th June, 1883.

No. 16,994. S. D. Jones, Chatham, N. J., "Rotary engines or pumps," 18th June, 1883.

No. 16,995. T. Levi, New Westminster, B. C., "Canning of fish, meats, fruits and other things," 18th June, 1883.

No. 16,996. T. J. Reany, Rocky Mount, N. C., "Feed mechanism for saw mills," 18th June, 1883.

No. 16,997. R. Goff, St. Johns, Newfoundland, "Veneering presses," 18th June, 1883.

No. 16,998. W. Thurston, J. Lowe, Buffalo, N. Y., "Spoon baits for fishing," 18th June, 1883.

No. 16,999. J. J. A. Waterhouse, Vincennes, Ind., "Centrifugal reels," 18th June, 1883.

No. 17,000. D. C. Pierce, Chicago, Ill., "Railway frogs," 18th June, 1883.

No. 17,001. W. G. Mitchell, New York, N. Y., "Car axle lubricators," 18th June, 1883.

No. 17,002. W. Haun, Knoxville, Tenn., "Mail bags," 18th June, 1883.

No. 17,003. M. H. Gilbert, Smithville, Ohio, "Stock cars," 18th June, 1883.

No. 17,004. P. Swan, Litchfield, Mich., "Machine for hampering horses," 18th June, 1883.

No. 17,005. W. Malloy, Toronto, Ont., assignee, "Mode of applying magnetism to the human body," 18th June, 1883.

No. 17,006. C. Whitaker, Chicago, Ill., "Faucets," 18th June, 1883.

No. 17,007. T. Hall and J. West, "Summerside, P. E. I., "Grain threshing and separating machines," 18th June, 1883.

No. 17,008. E. Harrington, Manchester, N. Y., "Hay elevators and carriers," 18th June, 1883.

No. 17,009. A. N. Woodard, Millington, Mich., "Wagon jacks," 18th June, 1883.

No. 17,010. I. Beasley, London, Ont., "Smoke and gas consuming and fuel-saving furnaces," 18th June, 1883.

No. 17,011. W. A. Root, Montreal, Que., "Machines for forming staples," 18th June, 1883.

No. 17,012. W. L. Maltby, Montreal, Que., "Roofing Cement," 18th June, 1883.

No. 17,013. E. How, Erin, Ont., "Double-trees," 18th June, 1883.

No. 17,014. J. H. Whitney, Brooklyn, N. Y., "Sewing machines," 18th June, 1883.

No. 17,015. G. L. Full, Charlottetown, P. E. I., "Starch drying house," 18th June, 1883.

No. 17,016. W. Groves, Welland, Ont., "Process for reducing crude and inferior oils," 18th June, 1883.

No. 17,017. M. Brisbois, Peterborough, Ont., "Machines for stretching wire in the construction of wire fencing of other application of extended wire or wire rope," 18th June, 1883.

No. 17,018. M. Patterson, Stratford, Ont., "Spark arresters," 18th June, 1883.

No. 17,019. G. Thomson, Dillonson, Que., "Process of treating copper pyrites for the purpose of extracting the metals contained therein," 18th June, 1883.

No. 17,020. W. D. Gray, Milwaukee, Wis., "Machines for the gradual reduction of grain," 21st June, 1883.

No. 17,021. H. A. Johnson, Medina, N. Y., "Apparatus for making paper vessels," 21st June, 1883.

No. 17,022. T. A. Heintzman, Toronto, Ont., "Music desks for upright pianos," 21st June, 1883.

No. 17,023. N. C. Newell, Springfield, Mass., "Buttons," 21st June, 1883.

No. 17,024. N. C. Newell, Springfield, Mass., "Buttons," 21st June, 1883.

No. 17,025. H. C. Marchand, Allegheny, Penn., "Measuring pumps," 21st June, 1883.

No. 17,026. C. Thomas, Terre Haute, Ind., "Screw drivers and screw adjusters," 21st June, 1883.

No. 17,027. J. DuBois, DuBois, Penn., "Movable dams," 21st June, 1883.

No. 17,028. J. Cassidy, Cambridge, Mass., "Clogs or shoes," 21st June, 1883.

No. 17,029. A. Woodward, Shelburne Falls, Mass., "Combined milk bucket and stool," 21st June, 1883.

No. 17,030. O. Rose, Manchester, Eng., "Heating by electricity and apparatus," 21st June, 1883.

No. 17,031. G. W. Cottingham, Little Rock, Arkansas, "Ironing machine," 21st June, 1883.

No. 17,032. G. Powley, Toronto, Ont., "Black leaf check books and covers," 21st June, 1883.

No. 17,033. H. M. Carlen, Cleveland, Ohio, "Binding poles and chains," 21st June, 1883.

No. 17,034. M. R. Dowlin, North Adams, Mass., "Saw-irrigators," 21st June, 1883.

No. 17,035. J. Goldie and H. McCulloch, Galt, Ont., "Roller mills," 21st June, 1883.

No. 17,036. S. Richards, Philadelphia, Penn., "Portable combined fire arresters and fire escapes," 21st June, 1883.

No. 17,037. J. G. Irving, Markdale, Ont., "Pumps," 21st June, 1883.

No. 17,038. G. W. Hunt, Philadelphia, Penn., "Devices for lighting the steps of cars," 21st June, 1883.

No. 17,039. J. Bates, Thornbury, Ont., "Manual powers," 21st June, 1883.

No. 17,040. J. F. Gilliland, Indianapolis, Ind., "Gearing," 21st June, 1883.

No. 17,041. D. Lihenfield, Kalamazoo, Mich., "Pumps," 21st June, 1883.

No. 17,042. H. W. Southworth, Springfield, Mass., "Electrical signalling apparatus," 21st June, 1883.

No. 17,043. C. N. Chadwick, Brooklyn, N. Y., "Corsets," 21st June, 1883.

No. 17,044. H. Pietsch, Flatbush, N. Y., "Stench straps," 21st June, 1883.

No. 17,045. G. W. Baer, Dayton, Ohio, "Brackets," 21st June, 1883.

No. 17,046. J. W. Dexter and E. W. Rathburn, Deseronto, Ont., "Lath bundling machines," 21st June, 1883.

No. 17,047. J. F. Lamping, Cincinnati, Ohio, "Stop waste cocks," 21st June, 1883.

No. 17,048. I. Strouse, New Haven, Conn., "Corsets," 21st June, 1883.

No. 17,049. G. A. Marsh, Brunswick, Maine, "Machines for heading corn," 21st June, 1883.

No. 17,050. F. Payzant, Lockport, N. S., "Machines for extracting oil from fish livers, and fish blubber," 21st June, 1883.

No. 17,051. N. Sleeman, Birmingham, Conn., "Gas pressure regulators," 21st June, 1883.

No. 17,052. C. H. Miller, Montreal, Que., "Hoists," 21st June, 1883.

No. 17,053. W. M. Campbell, Mount Clemens, Mich., "Apparatus for forming continuous pipes or tubes of concrete, or like material," 21st June, 1883.