

Public Exhibitions for 1883.

The following is a list of the principal public exhibitions for 1883, at which the most recent improvements and new inventions will be shown.

STATE, PROVINCIAL, ETC.

Table listing public exhibitions by state/province with dates. Includes American Institute, New York; Arkansas, Little Rock; California, Sacramento; Canada Dominion, St. John, N. B.; Canada Western, London; Cincinnati Industrial, Cincinnati; Colorado, Denver; Connecticut, Meriden; Delaware, Dover; Illinois, Chicago; Indiana, Indianapolis; Iowa, Des Moines; Kansas, Lawrence; Kentucky, Lexington; Louisiana, Lousville; Maine, Lewiston; Massachusetts, Provincial, Portage la Prairie; Maryland, Baltimore; Michigan, Detroit; Minnesota, Owatonna; Missouri, St. Louis; Montana, Helena; Nebraska, Omaha; New England, Manchester, N. H.; New Jersey, Waverley; New York, Rochester; North Carolina, Raleigh; Nova Scotia, Truro; Ohio, Columbus; Ontario Provincial, Guelph; Oregon, Salem; Pennsylvania, Philadelphia; Rhode Island, Providence; St. Louis, St. Louis; South Carolina, Columbia; Texas, Austin; Toronto Industrial; Tri-State, Williams Grove, Pa.; Vermont, Burlington; Virginia, Richmond; West Virginia, Wheeling; Wisconsin, Madison.

COUNTY AND LOCAL—NEW YORK.

Table listing county and local exhibitions in New York with dates. Includes Alleghany, Angelica; Broome, Whitney's Point; Carthage, Union, Carthage; Cattaraugus, Little Valley; Chautauque, Jamestown; Chemung, Elmira; Columbia, Hudson; Cobleskill, Cobleskill; Cortland, Cortland; Delaware, Delhi; Dutchess, Washington Hollow; Erie, Hamburg; Essex, Westport; Franklin, Malone; Fulton, Johnstown; Genesee, Batavia; Greene, Cairo; Herkimer, Herkimer; Jefferson, Watertown; Lewis, Lowville; Livingston, Genesee; Montgomery, Fonda; Moravia, Union, Moravia; Niagara, Lockport; Oneida, Rome; Onondaga, Syracuse; Ontario, Canandaigua; Orange, Middletown; Orleans, Albion; Oswego, Mexico; Otsego, Cooperstown; Putnam, Carmel; Queens, Mineola; Rensselaer, Lansingburg; Rockland, Spring Valley; Rushville, Union, Rushville; St. Lawrence, Canton; Sandy Creek, R. O. & B., Sandy Creek; Saratoga, Ballston Spa; Schoharie, Schoharie; Schoharie, Schoharie; Schuyler, Watkins; Seneca, Waterloo; Sinclairville, Sinclairville; Steuben, Bath; Suffolk, Riverhead; Sullivan, Monticello; Tioga, Owego; Tompkins, Ithaca; Washington, Sandy Hill; Wayne, Lyons; Western New York, Rochester; Wyoming, Warsaw; Yates, Penn Yan.

MAINE.

Table listing Maine exhibitions with dates. Includes Aroostook, Houlton; Cumberland, Portland; Franklin, Farmington; Kennebec, Readfield; Knox North, Hope Corner; Lincoln, Damariscotta; Oxford, Norway; Oxford West, Fryeburg; Penobscot, Exeter; Piscataquis East, Milo; Sagadahoc, Topsham.

NEW HAMPSHIRE.

Table listing New Hampshire exhibitions with dates. Includes Grafton, Plymouth; Oak Park, Greenfield.

VERMONT.

Table listing Vermont exhibitions with dates. Includes Addison, Middlebury; Caledonia, St. Johnsbury; Dog River Valley, Northfield; Franklin, Sheldon; Lamoille Valley, Morristown; Mad River Valley, Waitsfield; Orange, Bradford; Poultaey, Poultaey; Rutland, Rutland; Union, Bellevue Park; White River, Bethel.

MASSACHUSETTS.

Table listing Massachusetts exhibitions with dates. Includes Amesbury and Salisbury, Newburyport; Barnstable, Barnstable; Berkshire, Pittsfield; Berkshire Central, Lee; Bristol, Taunton; Deerfield Valley, Charlemont; Essex, Haverhill; Franklin, Greenfield; Grafton, Farmers' Club; Hampden, Chicopee; Hampshire, Amherst; Hampshire, Franklin, etc., Northampton; Highland, Middlefield; Hingham, Hingham; Hoosac Valley, North Adams; Housatonic, Great Barrington; Lancaster Farmers' Club; Marshfield, Marshfield; Martha's Vineyard, West Tisbury; Middlesex, Concord; Middlesex North, Lowell; Middlesex South, Framingham; Nantucket, Nantucket; Plymouth, Bridgewater; Union, Blandford; Westboro, Westboro; Worcester, Worcester; Worcester North, Fitchburg; Worcester Northwest, Athol; Worcester South, Sturbridge; Worcester Southeast, Milford; Worcester West, Barre.

RHODE ISLAND.

Table listing Rhode Island exhibitions with dates. Includes Washington, West Kingston; Woonsocket, Woonsocket.

CONNECTICUT.

Table listing Connecticut exhibitions with dates. Includes Chester, Chester; Clinton, Clinton; Danbury, Danbury; Fairfield, Norwalk; Farmington Valley, Canton; Guilford, Guilford; Killingworth, Killingworth; Milford and Orange, Milford; New London, Norwich; New Milford, New Milford; Southington, Southington; Tolland East, Stafford Springs; Union, Huntington; Watertown, Watertown; Westbrook, Westbrook; Willimantic Farmers' Club, Willimantic; Windham, Brooklyn; Woodbridge and Bethany, Woodbridge; Woodbury, Woodbury; Woodstock South, Woodstock.

NEW JERSEY.

Table listing New Jersey exhibitions with dates. Includes Atlantic, Hammonton; Bergen, Hohokus; Burlington, Mt. Holly; Cumberland, Bridgeton; Egg Harbor City; Hunterdon, Flemington; Monmouth, Freehold; Moorestown, East Moorestown; Morris, Morristown; Salem, Woodstown; Somerset, Somerville; Sussex, Newton; Union and Middlesex, Plainfield; West Jersey, Woodstown.

PENNSYLVANIA.

Table listing Pennsylvania exhibitions with dates. Includes Armstrong, Kittanning; Beaver, Beaver; Bedford, Bedford; Berks, Reading; Bradford, Tonawanda; Butler, Butler; Canton Union, Canton; Carbon, Lehigh; Chartiers Valley, Canonsburg; Chester, West Chester; Columbia, Bloomsburg; Crawford, Conneautville; Cumberland, Carlisle; Dauphin, Harrisburg; Dayton, Dayton; Delaware, Elwyn; Doylestown, Doylestown; Eastern Farmers' and Mech. Institute; Erie, Erie; Fayette, Uniontown; French Creek Valley, Cochranton; Gratz Driving Park, Gratz; Harford, Harford; Indiana, Indiana; Jefferson, Brookville; Juniata, Port Royal; Keystone, Kutztown; Keystone and Buckeye, Sharon; Lackawanna, Scranton; Lancaster, Lancaster; Lawrence, New Castle; Lebanon, Lebanon; Leechburg, Leechburg; Lehigh, Allentown; Luzerne, Wyoming; Lycoming, Williamsport; McKean, Port Alleghany; Mercer, Stoneboro.

Table listing Pennsylvania exhibitions with dates. Includes Mercer Central, Mercer; Northern Montour, Washingtonville; Northampton, Nazareth; Northumberland, Sunbury; Northwestern, Corry; Oil Creek Valley, Titusville; Oxford, Oxford; Petroleum, Parker's Landing; Potter, Coudersport; Punxsutawny, Punxsutawny; Rich Hill, Jacksonville; Ringtown, Ringtown; Schuylkill, Orwigsburg; Snyder, Selinsgrove; Somerset, Somerset; Sullivan, Forksville; Susquehanna, Montrose; Troy, Troy; Union, Lewisburg; Union City, Union City; Venango, Franklin; Warren, Sugar Grove; Washington, Washington; Washington Union, Burgettstown; Wayne, Honesdale; Wellsboro, Wellsboro; Wyoming, Tunkhannock; York, York.

DELAWARE.

Table listing Delaware exhibitions with dates. Includes Peninsular, Middletown.

MARYLAND.

Table listing Maryland exhibitions with dates. Includes Baltimore, Timonium; Cecil, Elkton; Frederick, Frederick; Harford, Bel Air; Kent, Warton Station; Washington, Hagerstown.

ENGINEERING INVENTIONS.

Mr. J. A. Wheeler, of Vandalia, Mo., has recently patented a lubricator for engine cylinders, the object of which is to provide for giving a regular and graduated supply of oil to engine cylinders and valves by automatic means operated by the engine. It consists in the combination, with an oil cup, of a plunger feed rod, acting to supply a quantity of oil to the steam pipe.

Mr. S. R. Jones, of Lacon, Ill., has obtained a patent on an improved car coupling, which possesses some features not found in any previously patented coupling. In the drawbar the inventor arranges a hook coupler which swings down to receive the link. A crank device is thrown down by the shock of the cars coming together, and engages the link with the coupler without the aid of any attendant. Arrangements are made for coupling cars of different heights with Mr. Jones' coupler.

A novel hydraulic pile driver has recently been patented by Messrs. J. W. Surprenant and J. E. Ferguson, of Astoria, Oregon. The invention consists of a bent pipe supported against the side of the pile and in a longitudinal groove in the pile. The pipe is held against the pile and in the groove, and is provided with means for raising it after the pile has been sunk. Means are provided for coupling a hose pipe with the pile pipe. If water is forced through the pipe and ejected from the lower end of the same, it washes away the sand under the pile and causes it to descend into the ground.

MECHANICAL INVENTIONS.

An important improvement has recently been patented for rendering elevator cars safe from falling in the event of the hoist rope breaking. The apparatus was designed especially for freight, coal, and mining purposes, but it may be used on passenger elevators with equal advantage. A series of stops are so arranged that, in case of accident, they fall and lodge under the car, stopping its descent immediately. Messrs. E. L. Parker and S. Peterson, of Queensville, Ind., are the patentees.

Mr. John S. Griffin, of Newburg, Cleveland, O., has patented an improved rolling mill, for rolling springs and sleigh shoes, and tapering the same on the flat sides and edges. On a shaft above the rolls double cams are mounted directly above the bearing blocks, so that when the shaft is rotated the double cams will press on the bearing blocks, and will thus depress the journal boxes of the upper roller and move the roller, so as to impart the proper form to the spring or sleigh shoe.

Mr. William Whitely, of Housatonic, Mass., has recently secured a patent for a safety stop for elevators. A frame passes across the top and down the sides of the carriage, and connected with it by cams and links, and partially supported by a weight and cord, so that the descent of the carriage within the frame will apply the cams and stop the downward movement when it is desired. Upon the bolts that connect the cam links with the top of the carriage are placed rubber blocks, to relieve the jar when the descent of the carriage is stopped by the cams.

An ore roasting furnace of the class where a cylinder is fitted for revolution within the furnace, has recently been patented by Mr. R. L. Thompson, of Boulder, Colo. The ore is fed in a continuous stream through a hopper into the cylinder, which is heated externally by a furnace. Air is supplied by a blower; in its passage into the cylinder it becomes heated, thereby effecting economy in the use of fuel. As the cylinder revolves the ore is lifted by tubes to the upper side and then dropped to the bottom, and is thus worked till discharged into a flue, through which it passes exposed to the action of a flame from the furnace, and is finally landed on a hearth.

A machine for amalgamating the gold and silver in pulverized ores, is the subject of letters patent recently issued to Mr. William E. Harris, of New York city. In using this machine, pulverized ore and heated water are introduced into a wooden cylinder in about the proportion of three hundred pounds of water to a ton of ore. When the cylinder is about seven-eighths

full, two pounds of bromine or bromide of sodium for each ton of ore is added, and steam is admitted into space between the wooden cylinder and the iron casing to keep the contents of the wooden cylinder hot. The cylinder is revolved until all the gold and silver in the ore is thoroughly bromidized, so that it will readily amalgamate with quicksilver. A suitable quantity of quicksilver is then introduced into the cylinder, and the revolution of the cylinder is continued for two or three hours, after which the contents are treated in the ordinary manner to separate the amalgam from the ore.

AGRICULTURAL INVENTIONS.

Mr. James F. Miller, of Spring Station, Ind., has patented an attachment to mowing and reaping machines to prevent the knives and knife bar from becoming clogged with dirt in the groove of the finger bar. The attachment consists of a plate attached to the finger bar in such a way as to effectually cover and close the joint between it and the back of the knife bar. The said plate serves also as a substitute for the cleats commonly employed to hold the knife bar down in its place.

A simple and effective device for use in barns to distribute hay to the outer parts of the loft as it is discharged from a carrier, has been patented by Mr. Frank Baylis, of Amenia, N. Y. An apron is hinged at its lowest part to the beams of the barn by an iron rod, and it is supported at its upper part in an inclined position by bars attached to the rafters. The hay when dropped from the carrier slides down the apron and is projected to the outer part of the mow.

MISCELLANEOUS INVENTIONS.

A simple and convenient ribbon holder has recently been patented by Mr. John Mellette, of Winamac, Ind. A wire having its ends bent passes into the center of the ribbon holder, and is folded over to rest on the ribbon in such a way as to prevent its unrolling except as desired for use.

A roll for ribbons, tape, etc., which is both light and inexpensive, has recently been patented by Mr. John Mellette, of Winamac, Ind. A strip of veneer or thin sheet of wood is cut out by a die or otherwise, in such a form as when folded and glued they make a complete roller much lighter and stronger than the ordinary solid wood or pasteboard ribbon roll and costing less.

Mr. M. W. Newcomb, of Marysville Kas., is the patentee of a new improvement in photographic plate holders, by which accuracy of focus and rapidity of work is accomplished. The plate holder is reversible to receive different sized plates on opposite sides of the holder. This invention is important to photographers who have several persons to photograph on different sized plates about the same time.

An ornamental napkin holder, to take the place of the ordinary ring holder, has been patented by Mr. C. S. Dikeman, of Waterbury, Conn. The napkin when folded rests in a U-shaped receptacle having feet for its support. Within the napkin receptacle is a chain on which the napkin rests. To remove the napkin the chain is drawn down and the napkin is raised. The new holder combines ornamental as well as useful qualities, and may be made of almost any material.

A patent for protecting wooden piles of bridges, docks, etc., from worms and insects or from the effect of alternate wetting and drying, has been patented by Mr. D. H. Valentine, of Brooklyn, N. Y. A mould is placed around the pile which is to be treated, after it has been driven into the ground. Portland or other cement is then poured into the mould after the water has been pumped out. After the cement becomes hard the shield is removed, when a canvas shield is stretched around the pile to protect the cement.

An apparatus for heating barrels after being set up in truss hoops, so that the staves will retain their curvature and not straighten out when the hoops are removed, has been patented by Mr. Paul Weidmann, of Brooklyn, N. Y. The barrel to be heated is placed on a metal stand perforated with holes, through which hot air is forced from a furnace or heater by means of a blower; a cylindrical drum covers the barrel to prevent the escape of the hot air.

An invention to facilitate the removal of the carbon deposited upon the inner surfaces of the stand pipes of gas works, has recently been patented by Mr. John Clark, of New York city. The invention consists in a pipe cleaner, made with a cutter having a central perforation to receive a rod, which is provided with collars above and below the cutter. The rod serves as a hammer to force the cutter through the pipe. The rod is also provided with a cap to keep it in the center of the pipe while the tool is being used.

A spring bed bottom, constructed in such a manner as to be strong and durable, and in which the springs will not be liable to get out of place, has recently been patented by Mr. Charles J. Mengel, of New York city. With cross springs are connected reinforcing springs, the ends of which rest upon the middle bends of the cross springs, and are held from lateral movements by longitudinal connecting wires placed above and below. The cross springs are kept in place by passing the lower wires through loops formed upon the upper wires and passed down through perforations in the said springs.

A new process for the manufacture of beer, sirup, distilled liquors, etc., has recently been patented by Messrs. A. E. & W. E. Feroe, the former residing at Albany and the latter at Poughkeepsie, N. Y. The principal feature of the invention consists in the process of forming a mash from corn meal by boiling it for about an hour in water, and letting it cool down to a temperature of 150° to 160°, adding a small quantity of malt flour, and putting the material through sundry other simple processes, producing, it is claimed, a substance equal to barley malt. The inventors show in their patent drawings an apparatus which may be used in preparing the new material, but the invention is not limited to the machinery described, for other appliances may be used for producing the same yeast-like substance.