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CONTENTS.

INVENTIONS PATENTED.....	203
INDEX OF INVENTIONS.....	CCX
INDEX OF PATENTEES.....	CCXI
ILLUSTRATIONS.....	213

INVENTIONS PATENTED.

No. 10,621. Improvements on Shingle Machines. (*Perfectionnements aux machines à bardeau.*)

William Goldie, Fentonville, Mich., U. S., 8th November, 1879, (Extension of Patent No. 10,522), for 5 years.

No. 10,622. Improvements on Baling Presses. (*Perfectionnements aux presses à empaqueter.*)

Peter K. Dederick, Albany, N. Y., U. S., 8th November, 1879, for 5 years.

Claim.—1st. The combination and connection of the truck and frame of the press, through or by means of the power shaft 1; 2nd. The combination of the sweep or horse lever with the truck and press frame connected through said sweep or horse lever; 3rd. A horizontal baling press, the power end of the same elevated and supported through or by means of the power shaft, whereby the sweep or horse lever is rotated underneath the frame of the press; 4th. In a horizontal baling press, the combination of the horse lever rotated with the arched frame or connection between the base or foot of the power and the resistance or bale chamber; 5th. In a baling press in which the horse lever or sweep is rotated underneath the frame, the rod or equivalent connection F connecting the press chamber and the power end of the press under or through the horse lever or sweep; 6th. In a baling press, the frame or gate H and pitman K, or arched pitman in combination with the reciprocating traverser; 7th. In a horizontal baling press in which the hay is pressed in sections by a reciprocating traverser, the combination of the press box A and the connection timbers D D with the hopper or feed orifice through or between them; 8th. The method of operating a baling press mounted on trucks by means of a horse lever rotated underneath the frame and pressing devices so as to bring the circuit or track of the horse between the trucks.

No. 10,623. Improvements on Carriage Movement of Saw Mills, Planers and other Machines. (*Perfectionnements au mouvement des charriots des scieries, raboteurs et autres machines.*)

Willard Lamb, Green Bay, Wis., U. S., 8th November, 1879, (Extension of Patent No. 4,359), for 5 years.

No. 10,624. Improvements on Harrows. (*Perfectionnements aux hersees.*)

Hugh McLeod, Hardwood Hill, N. S., 8th November, 1879, for 5 years.

Claim.—1st. A flexible harrow composed of the bulls A A₁ A₂ A₃ B B₁ B₂ B₃ D D₁ D₂ D₃, having teeth E linked and hinged together and arranged as described.

No. 10,625. Improvements in Switches and Signals. (*Perfectionnements aux aiguillères et aux signaux.*)

John Rourke, Kingston, Ont., 8th November, 1879, for 5 years.

Claim.—1st. The box B; 2nd. The connecting rod D with its slips and shoulders T connected with the dog lifters E; 3rd. The dogs F F, slot C, pump V and cylinder Y; 4th. The cylinder Y and pump V for pointing and signalling purposes.

No. 10,626. Improvements on Vehicle Dashes. (*Perfectionnements aux garde-crotte des voitures.*)

Benjamin J. Warden, Cincinnati, Ohio, U. S., 8th November, 1879.

Claim.—1st. An ordinary metallic frame covered with papier-mâché or its equivalent; 2nd. An ordinary metallic frame covered with papier-mâché or its equivalent and finished with japan or other water-proof polish; 3rd. The combination with an ordinary metallic frame, entirely covered with a material pressed or moulded into place to form an unstitched dash, of a rail a' tached closely to the upper edge of the covering of the dash frame, by screws or rivets passing through the rail into the top bar of the metallic frame for protecting the covering around said top bar; 4th. A device for connecting a footless dash to vehicles, by means of clips where said device is provided with downward projections, one of which fits against the corner block and the other against the front end of the box; 5th. The pivoted clip J and stationary one O, in combination with a dash foot.

No. 10,627. Improvement in Sharpening Files. (*Perfectionnements dans l'aiguillage des limes.*)

Milo A. Richardson, Bridgeport, Conn., U. S., 8th November, 1879, for 5 years.

Claim.—The method of sharpening and finishing files, by directing, against the back of the teeth, the sand blast to grind or whet the teeth and point the same

No. 10,628. Apparatus and Circuits for Signalling in District Telephone Systems. (*Appareils et circuits à signaux dans les systèmes des téléphones de districts.*)

George L. Anders, Boston, Mass., U. S., 8th November, 1879, for 5 years.

**Claim.*—1st. A series of signalling devices, placed in an electric circuit, each operated individually by a definite number of impulses from a central station or single point in the circuit; 2nd. A series of stations located in a single electric circuit, each provided with a signalling apparatus capable of being operated from a central office and of receiving its own signal, only; 3rd. The individual signalling apparatus in combination with a magneto induction apparatus for signalling the central office, only; 4th. The armature of an induction device electrically insulated from the cores of the induction coils when not in contact with said cores, whereby the coils are short circuited when not in use; 5th. A switch acting automatically to rest on the circuit through a station by replacing the telephone after use; 6th. A signal bell having a step by step obstruction operated by electro-magnetism to prevent a signal being given, excepting when it occupies a predetermined position; 7th. A signal bell having an obstructing device operated step by step by electro-magnetic impulses, locked by an automatic device and released by a change in the polarity of the exciting impulses; 8th. A series of signal bells in an electric circuit, each having an obstructing device operated step by step by electro-magnetic currents of one polarity and a locking device operating automatically to unison said obstructing devices and disconnected by a change in the polarity of the exciting currents; 9th. As a means for controlling the action of a bell hammer in the electro-magnet D with its neutral and polarized armatures, the slotted rotary disc J, and means for rotating, locking and unlocking said disc; 10th. A bell and hammer provided with rotating slotted disc for arresting the blow of the hammer when desired; 11th. A series of signal bells combined in a single electric circuit each bell being provided with an electro-magnet and means whereby the hammers of all the bells but one are prevented from striking; 12. A series of signal bells located in a single electric circuit, each bell being provided with an electro-magnet and means whereby the action of the bell hammers can be controlled, in combination with a series of magneto induction devices for signalling the central office only from each station in the series.

No. 10,629. Improvements on Springs for Platform Waggons. (*Perfectionnements aux ressorts des porte-corps.*)

Lauren M. Fitch, Rome, (Assignee of Elliott R. Fitch, Hubbardsville,) N. Y., U. S., 11th November, 1879, for 5 years.

Claim.—1st. The combination with the cross spring a and side springs b b, of the two diagonal springs c c, having their rear ends secured to the side springs b b, and their forward ends secured to the underside and at the cen