No. 19,582. Hay and Grain Rack Elevator.

(Monte-Râtelier pour le Foin et le Grain.)

Peter G. Walker, Westwood, Ont., 16th June, 1884; 5 years.

Claim.—The shaft A, journalled at an elevation overhead in a barn or building, and having attached to it ropes I: II passing over pulleys a, a to the load to be lifted, grooved pulley C having wound upon it, rope D and provided with brake lever LI. cord (I, pawls K and cord k, the whole being arranged to operate substantially as and for the purpose described purpose described.

No. 19,583. Machine for Gumming and Sharpening Saws. (Machine pour Evider et Aiguiser les Scies.)

Samuel C. Rogers, Hamilton, Ont., 16th June, 1884; 5 years.

Samuel C. Rogers, Hamilton, Ont., 16th June, 1884; 5 years.

Claim.—1st. In a saw gummer and sharpener, of a double hinge device to produce a parallel motion of spindle and grinding wheel, substantially as and for the purpose specified. 2nd. The combination, in a saw gummer or sharpener, of the movable frame A, the hinge frame F and bed plate G to carry a non-sliding spindle to which a grinding wheel is attached, all constructed and relatively arranged substantially as herein set forth. 3rd. In combination with a saw gummer and sharpener, of the hinged guide H, substantially as and for the purpose specified. 4th. In combination with a saw gummer and sharpener, of the slotted plate d, the same being formed at one end with a lug d1 and projection k, the guide arm f hinged to the plate d, as spring g attached to guide arm f and made adjustable by thumb screws h, i and ii, a stop screw j, all constructed substantially as and for the purpose specified 6th. In combination with a saw gummer and sharpener, and guide frame H, of the adjustable stop pin c provided with block nut n, substantially as and for the purpose specified. 6th. In combination with the saw gummer and sharpener, of the circular spiked base piece m, the same being provided with a cone screw pin and nut, all constructed to hold a saw while being gummed and sharpened substantially as specified. 7th. In combination, with the frame F of a hinged saw gummer, of the step pin l, as and for the purpose specified.

No. 19,584. Conveyor for Grain and Flour Machines. (Vis sans fin pour Machines à Grain et à Farine.)

Eli S. Edmonson, Oshawa, John Goldie and Hugh McCulloch, Galt, Ont., 16th June, 1884; 5 years.

Claim.—As an improved conveyer for a grain or flour machine, a spirally-bent rod C, substantially as and for the purpose specifind.

No. 19,585. Machine for Mangling Clothes.

(Machine à Calendrer de Linge.)

Hubert R. Ives, (assignee of George Scott.) Montreal, Que., 16th June, 1884; 5 years.

June, 1884; 5 years.

Claim.—1st. In a mangling machine, the combination, with a fixed upper roller and an adjustable lower roller, of the arms D, D carrying the table, said arms being fulcrumed to the standards and provided with sockets to receive the journals of said lower roller, substantially as and for the purpose set forth. 2nd. The combination, with the frame, the table c, levers D, D and the lower roller B1, of the spring board E, rod F and crank nut C, substantially as and for the purpose set forth. 3rd. The combination of the standard A A having vertical slots c and tulcrum pins d, with the levers D, D having horizontal slots d and carrying-table c, substantially as and for the purpose set forth.

No. 19,586. Fifth-Wheel for Vehicles.

(Rond d'Avant-Train pour Voitures.)

The Fallesen Fifth-Wheel Company, (assignee of Christian Fallesen, and Johannes M. Jensen,) Brooklyn, N. Y., U.S., 16th June, 1884; 5 years.

Claim.— In a fifth-wheel, constructed of annular plates, the combination, with an inner ring connected and secured to the running gear of the vehicle, of an upper transversely divided annular plate rotating upon said inner ring, and constructed to overlap, conceal and protect the upper surface and outer rim of said inner ring, one section of said upper plate being connected to the body of the vehicle and its other section hinged to the first and left free to open out independently therefrom, substantially as and for the purpose hereinbefore set forth.

No. 19,587. Harvesting Machine.

(Moissonneuse.)

George Fielden, Dundas, Ont., 16th June, 1884; 5 years.

Claim.—1st. The combination of the movable arm A, yoke B, reel shaft C, reel arms D, reel pins E, grain platform et. 2nd. The combination of the movable arm A, yoke B, set-screw F, lock-bolt G, pivot-bolt H, as and for the purpose hereinbefore set forth.

No. 19,588, Thrashing Machine.

(Machine à Battre.)

George A. Roberte and Christian Schafer, Three Rivers, Mich., U.S., 16th June, 1884; 5 years.

10th June, 1884; 5 years.

Claim.—1st. The combination, with a straw shaker, of two sets of rake fingers arranged to take the straw therefrom, one set pivoted above the other, and means for vibrating said sets of fingers past each other in opposite direction, substantially as and for the purpose set forth. 2nd. The combination with a straw shaker, of a rock-bar mounted independently thereof, the straw-carrying fingers projecting from said rock-bar over said shaker, and means for giving said rock-

bar a lateral reciprocating motion opposite to that of the shaker and a simultaneous rocking motion, thereby causing the carrying fingers to vibrate up and down as well as to move longitudinally, substantially as and for the purpose set forth. 3rd. The combination, with a tially as and for the purpose set forth. 3rd. The combination, with a standard the same, and means for causing said fingers to rise and move forward the same, and means for causing said fingers to rise and move forward as the shaker moves backward, and to fall and move backward as the shaker moves forward, substantially as described. 4th. The combination, with two connected moving straw-shakers, one in advance of the ofter, of two sets of rake fingers, one set connected to the rear end of the first shaker, and the other set connected to the front end of the often first shaker and under the set connected to the first shaker, and second shaker and under the set connected to the first shaker, and second shaker and under the set connected to the first shaker, and second shaker and under the set connected to the first shaker, and second shaker and under the set connected to the first shaker, and second shaker and under the set connected to the first shaker, and second shaker and under the set connected to the first shaker, and the combination, with two shakers arranged one in advance of, and above the other and having counter movements, of a rake-head and above the other and having counter movements, of a rake-head movement as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as the upper shaker advances and to drop and move backward as

No. 19,589. Ditching Machine.

(Machine à Fossoyer.)

Russell H. Nogar, Dundee, Mich., U. S., 15th June, 1884; 5 years.

Claim.—1st. The combination, in a truck for a ditching machine, of the front and rear axles secured to the bed, each by a proper king bolt with locking cams or their equivalents for locking said axles in bolt with locking cams or their equivalents for locking said axles in position, said axles being each provided with suitable hounds or other known appliances for securing a tongue thereto, whereby the purposes may be run in either direction, substantially as and for the purposes may be run in either direction, substantially as and for the purposes may be run in either direction, substantially as and for the purposes may be run in either direction, substantially as described, journalled in the lower end of a sash having a verticular reciprocating movement within a frame, in combination with the cutting ing devices or plates adapted to clear the earth from the cutting wheel in advance of its out in either direction, substantially as specified. 3rd. In a ditching machine, and in combination with the ovided wheel journalled in the lowest end of a sash, such sash being provided with means for elevating or lowering the same, a frame secured with means for elevating or lowering the same, a frame secured with means for elevating or lowering the same, a frame secured with means for elevating or the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consisting of the bed A to which are pivotally secured the machine, consis Russell H. Nogar, Dundee, Mich., U. S., 15th June, 1884; 5 years.

No. 19,590. Telephone Transmitter.

The Bell Telephone Company of Canada, Montreal, Que., (assignee of Emile Berliner, Boston, Mass., U. S.,) 16th June, 1884; 5 years.

Claim—1st. In a telephone transmitted.

Emile Berliner, Boston, Mass., U. S.,) 16th June, 1884; 5 years.

Claim.—Ist. In a telephone transmitter, a variable resistance on sisting of a mechanical mixture of small conducting particles we all amp black, or granulated coke with water or other liquid of low of ductivity. 2nd. The combination, in a telephone transmitter, of a ductivity. 2nd. The combination, in a telephone transmitter, of some side of the constituting a chamber of which the diaphragm forms one side to constituting a chamber of which the diaphragm forms one side to with a variable resistance placed in the chamber thus formed with a variable resistance placed in the chamber thus formed with a variable resistance placed in the chamber thus formed side consisting of a damp conducting mass produced by mixing granulated carbon particles with water or some other semi-conducting liquid carbon particles with water or some other semi-conducting side. The combination, in a transmitting telephone, of the conductivity, the moist carbon mass formed by adding a partially ing liquid to granulated carbon, the conducting weight periphyling grooved and the soft and flexible packing for the said grooved, and the soft and flexible packing for the said grooved mitter, the combination of a sliding weight adapted to be acted upon mitter, the combination of a sliding weight adapted to be acted upon said weight.

No. 19,591. Telephone Transmitter.

The Bell Telephone Company of Canada, Montreal, Que., (assignee of Emile Berliner, Boston, U. S.,) 16th June, 1884; 5 years.

Claim.—In a telephone-transmitted. Claim.—In a telephone-transmitter, a tube or chamber containing a mass of loose conducting particles through which a current passes, and which particles are held together by a movable weight resting of and which substantially as described.

No. 19,592. Spring Shade Roller.

The Shorey Spring Bed and Shade Roller Company, Mass. Marshall E. Graves and Prescott C. Gates,) Lowell, Mass. (Haim—let The

Claim.—1st. The combination of the hollow barrel, the spindle having a portion angular in cross-section, means of imparting longitudinal outward motion to said spindle, the plug secured within