with mechanism for producing simultaneous vertical adjustment at all the bearings of said sprocket wheels, substantially as described. 5th. The combination, with two parallel revolving sprocket chains, of yokes supported upon said sprocket chains, so that one end of concave disks or ploughs are smounted in said yokes, substantially say described. 6th. The combination, with two parallel revolving that one end of each yoke is capable of vertical adjustment, and sprocket chains, of yokes supported upon said sprocket chains, so freely revoluble concave disks or ploughshares mounted in said of said yokes, downward into the furrow, substantially as described, gangs, offreely revoluble disks or ploughshares mounted in said of said yokes downward into the furrow, substantially as described, gangs, offreely revoluble disks or ploughshares mounted on sprocket chains, which sprocket chains move in lines inclined at equal angles to the line of motion of the plough frame and upon opposite sides of mounted, and motor on said frame, a train of gearing which communicates motion to said traction wheels from the motor to said sprocket chains, substantially as described. 8th. The combination, with a steam plough frame, of sprocket chains running on sprocket wheels mounted in said frame, yokes supported between a set of parallel sprocket chains, and freely revoluble disks mounted in said yokes, together with mechanism for producing simultaneous vertical addiverse the said sprocket chains, and gearing by which power may be chanism. Substantially as described. 9th. The combination, with a or ploughshares, which are mounted upon sprocket chains, which are mounted upon sprocket chains, which sprocket chains move in lines inclined at equal angles to the line of producing high sprocket chains and operated in conjunction with the gangs of ploughshares, plough frame and upon opposite sides of said line, to-frame, and operated in conjunction with the gangs of ploughshares, which are mounted upon sprocket chains move in lines inclined at eq

No. 34,248. Pulverizing Mill.

(Moulin à broyer.)

James K. Griffin, Brooklyn, N.Y., U.S., 5th May, 1890; 5 years.

Claim.—1st. In a pulverizing mill, the combination, with an annular die of a radially movable roll-shaft and roll, and mechanism for positively revolving the same upon their own axis and for gyrating them around the central axis of the mill, substantially as described. 2nd. In a pulverizing mill, the combination, with a pan or pulverizing chamber, and an annular die arranged above the bottom of said pan or chamber, and mechanism for positively revolving said shaft and roll, which are also arranged above the bottom of said pan or chamber, and own axis, and for gyrating them around the central axis of the mill, tion, with the pan or chamber and the annular die or ring of the radially movable shaft, having a fixed roll at its lower end rotating volving said shaft and roll upon their own axis, and a universal joint ing mechanism, substantially as described. 4th. In a pulverizing wolving said shaft and roll upon their own axis, and a universal joint ing mechanism, substantially as described. 4th. In a pulverizing die or ring, of the radially-movable shaft, having a fixed roll at its lower end rotating against the inner surface of said die, and meupon their own axis and around the central axis of the mill, and over end rotating against the inner surface of said die, and meupon their own axis and around the central axis of the mill, and sal joint, substantially as described. 5th. In a pulverizing mill, the anda revolupation, with a pan or chamber provided with an annular die, through aid cover, and having a roll at its lower end, and mechanism consisting of the drive shaft, the pulley and the univercombination, with a pan or chamber provided with the plan or cover, substantially as described. 6th. In a pulverizing mill, the combination with a pan or chamber provided with the plan or chamber I, proformed with the annular die, 8, and the revoluble top or cover 12, ing anti-friction lined flanges 2th of the radially-movable shaft passand the roll 17, and me James K. Griffin, Brooklyn, N.Y., U.S., 5th May, 1890; 5 years.

suspended radially-movable roll shaft, a roll secured to the lower end thereof and provided with stirrers on its lower end, which are also arranged above the bottom of said pan or chamber, and mechanism for positively revolving said shaft and roll upon their own axis, and for gyrating them around the central axis of the mill, substantially as described. 9th. In a pulverizing mill, the combination, with the pan or pulverizing chamber I, formed with the opening 8¹, provided with the annular die 8, the screens 5, and the screen frame 3, of the suspended radially-movable roll shaft 18, the roll 17 secured to the lower end thereof, and provided with the stirrers 17¹, and mechanism for positively revolving said shaft or roll upon their own axis, and for gyrating them around the central axis of the mill, substantially as described. 10th. In a pulverizing mill, the combination, with the pan or pulverizing chamber I, formed with the opening 8¹, and provided with the annular die 8, the screens 5 and the screen frame 3 formed with the trough 4 and spout 6, of the suspended radially-movable roll shaft 18, the roll 17 secured to the lower end thereof, and provided with stirrers 17¹, and mechanism for positively revolving said shaft and roll upon their own axis, and for gyrating them around the central axis of the mill, said mechanism consisting of the drive shaft 24, the pulley 25 and the universal joint 23, substantially as described.

No. 34,249. Apparatus for the Manufacture of Wire, Rods, Hoop Iron and Steel, etc. (Appareil de fabrication du fil de fer, des barres, du feuillard de fer et d'acier, etc.)

Henry Roberts, Pittsburg, Penn., U.S., 5th May, 1890; 5 years.

Claim.—1st. In an apparatus for heating wire, etc., the combina-sion, with a heating chamber, of a coil spool arranged therein and adapted to receive one or more wraps or turns of the wire to be heated, mechanism for rotating said spool, whereby the wire is con-tinuously drawn in and delivered from the heating chamber by the rotation of the coil spool and wells or reads for discharging and reheated, mechanism for rotating said spool, whereby the wire is continuously drawn in and delivered from the heating chamber by the rotation of the coil spool, and rolls or reels for discharging and receiving the wire, substantially as and for the purposes described. 2nd, In an apparatus for heating wire, etc., the combination, with a heating chamber, of a power driven horizontally journalled tapering coil spool arranged therein, and adapted to gradually and progressively receive and discharge one or more wraps or turns of the wire to be heated, and rolls or reels for discharging and receiving the wire, substantially as and for the purposes described. 3rd. In an apparatus for heating wire, etc., the combination, with a heating chamber of a coil spool arranged therein, and adapted to receive a series of coils or turns of the wire, etc., to be heated, said coil spool being composed of separate independently rotary annular sections, substantially as and for the purposes described. 4th. In an apparatus for heating wire, etc., to be heated, said coil spool being composed of a separate independently rotary annular tapering sections, substantially as and for the purposes described. 4th. In an apparatus for heating wire, etc., to be heated, said coil spool being composed of a separate independently rotary annular tapering sections, substantially as and for the purposes described. 5th. In an apparatus for heating wire, etc., the combination, with a heating chamber, of a spower driven hollow coil spool arranged therein, and adapted to receive a series of coils or turns of the wire, etc., to be heated, said spool being mounted upon a hollow shaft or shafts connected with a water supply, substantially as and for the purposes described. 6th. An apparatus for heating wire, etc., which consists in a heating chamber, and a power driven rotative spool arranged therein, having devices (such as a notch on the spool) for detachably securing the end of a wire thereto, whereby the wire on being wrapped on the spool and drawn through

No. 34,250. Railway Car.

(Char de chemin de fer.)

Charles A. Davis, Washington, D.C., U.S., 5th May, 1890; 5 years.

Claim.—Ist. In a car, a partition consisting of a rear section I extending from the rear wall of the stall space partially across said space, and adapted to fold against said rear wall, and an independently continuous section K above and in line with said rear section, as shown and described. 2nd. In a car, the combination of a partition I, and a laterally yielding support for the end of said partition, whereby it is adapted to yield laterally. 3rd. In a car, a partition consisting of a hinged rear section I extending partially across the stall space, and an upper section K extending entirely across the stall space, and an upper section K extending entirely across the stall space, and an upper section K extending entirely across the stall space, and an upper section K extending partition section I and partition board or section K, a pin d extending from one into a socket e in the other, for the purpose set forth. Sth. In a car, the combination of a rear partition section I, a partition board or section K, a fixed support B and posts or supports C, arranged as shown and described. 6th. In a car, the combination of a vertical rod B at one side, and posts or supports C at the opposite side of the space to be partitioned, a rear partition section I hinged to said rod and a partition board or section K, provided at one end with an eye L to encircle the rod, substantially as and for the purpose set forth. Th. In a car, the combination of a vertical rod B at one side of the space to be partitioned, posts or supports C at the opposite side thereof, and a partition board K, provided at one end with a swivel eye L encircling the rod, as set forth. 8th. In combination with rods B and posts C, C, partition board K, provided with a swivel eye L encircling the rod, and a hanger or support N, substantially as and for the purpose set forth. 9th. In a car, the combination of vertical rod B, posts C, C, partition section I and partition board K having an eye or l Charles A. Davis, Washington, D.C., U.S., 5th May, 1890; 5 years.