with mechanism for producing simultaneous vertical adjustment at all the bearings of said sprocket wheels, substantially as described of yokes supported upon said sprocket chains, so that one end of corocave disks or ploughshares mounted in said yokes, substantially as described. The combination, with two parallel revolving sprocket chains, of yokes supported upon said sprocket chains, so that one end of each yoke is capable of vertical adjustment, and yekes, together with spring which normally tend to force the ends of each yoke is capable of vertical adjustment, and yekes, together with spring which normally tend to force the ends of said yokes downward into the furrow, substantially as described, gangs, off reely revoluble disks or ploughshares mounted in said of said yokes downward into the furrow, substantially as described, gangs, off reely revoluble disks or ploughshares mounted on sprocket to the line of motion of the plough frame and upon opposite sides of mounted, a 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 amounted in said frame, yokes supported between a set of parallel sprocket chains, and freely revoluble disks mounted in said frame, yokes supported between a set of parallel sprocket chains, and freely revoluble disks mounted in said sprocket chains, and gearing by which power may be transmitted from the motor to the before mentioned adjusting methanism substantially as described. 9th. The combination, with a steam plough frame, of two sets or gangs of freely revoluble disks or ploughshares, which are mounted upon sprocket chains, which moton of the plough frame and upon opposite sides of said line, together with mechanism for producing simultaneous vertical additives the said sprocket chains over in lines inclined at equal angles to the line of frame, and operated in conjunction with the g

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 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, and sold, and the annular die or ring of the radially movable shaft, and roll upon their 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, and roll upon their own axis, and a universal joint ing mechanism, substantially as described. 4th. In a pulverizing volving 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, said ever end rotating against the inner surface of said die, and meupon their own axis and around the central axis of the mill, said sal joint, substantially as described. 5th. In a pulverizing mill, the annular die, and mechanism consisting of the drive shaft, the pulley and the univercombination, with a pan or chamber provided with an annular die, and a revoluble top or cover, and having a roll at its lower end, and mechanism for positively revolving said shaft and roll upon their own axis, and for gyrating them around the central axis of the mill and repulverizing mill, the combination, with a pan or rokamber provided with the place 22, has provided with the sleeve 19, and the roll 17, and m 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 17, 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 radiallymovable roll shaft 18, the roll 17 secured to the lower end thereof, and provided with stirrers 17, 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.

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

Claim.—Ist. In an apparatus for heating wire, etc., the combinasion, 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 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. 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., 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 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 power 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, of a power driven ho

No. 34,250. Railway Car.

(Char de chemin de fer.)

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

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 substantially as described and shown, 4th. In combination, with hinged 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 loop L encircling the rod and extending betwee