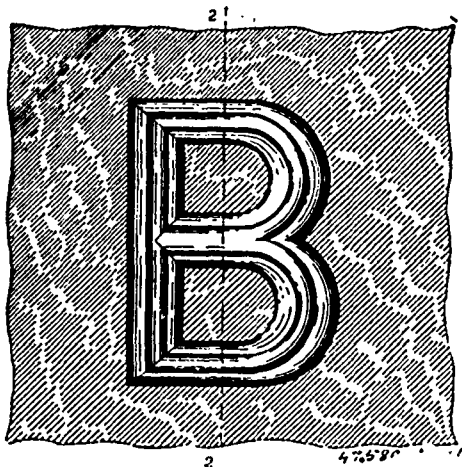


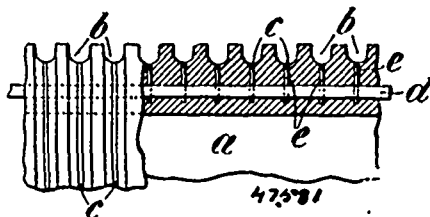
out a metal backing and made by casting melted enamel glass in a mould, as set forth. 2nd. An enamel glass letter or sign fashioned



by heat out of enamel glass, as set forth.

No. 47,581. Manufacture of Wire.

(Fabrication de fil de fer.)



Richard David Sanders, Eastbourne, England, 3rd December 1894; 6 years.

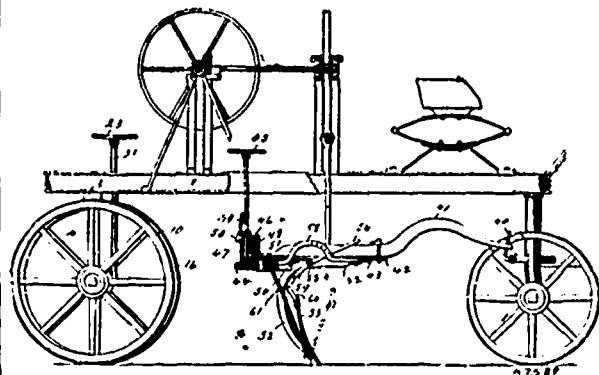
Claim.—1st. The manufacture of wire by electro-deposition upon a wire so placed and connected that the deposit will accumulate on one side of such wire so that the deposited metal can be removed or separated therefrom, substantially as hereinbefore described. 2nd. The manufacture of wire by electro-deposition upon a wire inserted in or lying in the bottom of a spiral groove formed around a suitable mandril so that the deposit may accumulate upon one side of the wire and be subsequently separated therefrom and drawn in the ordinary manner, substantially as hereinbefore described. 3rd. A mandril for the manufacture of wire by electro-deposition constructed of insulating material, having a spiral or other suitable groove formed thereon and a fine wire inserted in or lying in the bottom of the said groove and suitably connected to an electric conductor and so arranged that the deposit will accumulate upon one side of the wire and may be afterwards removed and separated from the wire, substantially as hereinbefore described. 4th. In an apparatus for the manufacture of wire by electro-deposition, a mandril suspended upon a revolving spindle so that a portion of its surface shall be above the level of the liquid in the tank, as and for the purpose hereinbefore described and illustrated in figures 3 and 4 of the accompanying drawing.

No. 47,582. Road Scraper. (Grattoir de rue.)

The Western Wheeled Scraper Company, assignee of Thomas Ruel McKnight, both of Aurora, Illinois, U.S.A., 3rd December, 1894; 6 years.

Claim.—1st. The combination of a frame having an extensible axle composed of two separate axles, one of which is adapted to be laterally extended, means for extending the laterally extensible axle, spring-pressed locking pins mounted upon said frame and automatically moved by their springs into engagement with the two axles, and means for moving the locking pins against the tension of their springs to disengage said pins from the axles, substantially as described. 2nd. The combination of a frame having an extensible axle composed of two separate axles, one of which is adapted to be laterally extended, means for extending the laterally extensible axle, locking pins mounted upon said frame and movable into and out of engagement with the axles, and lever mechanisms connected with the locking pins for withdrawing them from engagement with the axles, substantially as described. 3rd. The combination of a frame having an extensible axle composed of two separate axles, one of which is adapted to be laterally extended, rack and pinion mechanism for extending the laterally extensible axle, locking pins mounted upon the said frame and movable into and out of engagement with the two axle, and independent lever

mechanisms connected respectively with the locking pins for withdrawing them from engagement with the two axles, substantially as described. 4th. The combination with a frame, axle boxes secured thereto, two separate longitudinally movable axles slidingly mounted in said axle boxes, and wheels



mounted on said axles, of a rack secured to one of said axles, a pinion engaging said rack, means for rotating the pinion, locking pins mounted upon the said frame and movable into and out of engagement with the two axles, and independent lever mechanisms connected respectively with said locking pins for withdrawing them from engagement with the axles, substantially as described. 5th. The combination with a frame, axle boxes secured thereto, two separate longitudinally movable axles slidingly mounted in said axle boxes, a bearing plate secured to said axle boxes below said axles and connecting said axle boxes together, rollers journaled on the inner ends of said axles and bearing upon said bearing plate, rollers journaled in said axle boxes and bearing on said axles, and wheels mounted one on each of said axles, of a rack secured to one of said axles, a pinion engaging with said rack, mechanism for rotating said pinion, whereby said rack may be moved longitudinally, and mechanism for locking said axles in the desired position, substantially as specified. 6th. In a scraper, the combination with a frame 1, axle boxes 5, 5^a secured to said frame, bearing plates 6, 7, secured to said axle boxes, axle 9 slidingly mounted in said axle boxes 5, 5^a, and a wheel 10 mounted on said axle 9, of an axle 13 slidingly mounted in said axle boxes 5, 5^a, a wheel 16 carried by said axle 13, a rack 18 secured to said axle 13, a pinion 24 mounted on said axle box 5^a, and engaging with said rack, and mechanism for rotating said pinion so as to move said rack longitudinally, substantially as specified. 7th. In a direct draft road scraper, the combination with a scraper-blade frame adapted to be suspended under a scraper carriage, and a scraper-blade carried by the scraper-blade frame, of a rock-shaft mounted on said scraper-blade frame and connected with the scraper-blade, and a lever for rocking the said shaft to adjust the pitch of the scraper-blade, substantially as described. 8th. The combination with a scraper-blade frame, and a scraper-blade pivotally connected therewith, of a rock-shaft journaled on the scraper-blade frame and pivotally connected with the scraper-blade, and a lever for turning the rock-shaft to vary the pitch of the scraper-blade, substantially as described. 9th. The combination with a scraper-blade frame, of a rock-shaft 55 journaled in said scraper-blade frame and having arms 59, a scraper-blade pivotally supported by said scraper-blade frame, links connecting said arms 59 with said scraper-blade, and a lever 56 secured to said rock-shaft, whereby the pitch of said blade may be varied by operating said lever, substantially as described. 10th. The combination with a scraper-blade frame, of a rock-shaft 55 journaled in said scraper-blade frame and having arms 59, a scraper-blade pivotally supported by said scraper-blade frame, links connecting said arms 59 with said scraper-blade, and a lever 56 secured to said rock-shaft, whereby the pitch of said blade may be varied by operating said lever, and a locking device carried by said scraper-blade frame, whereby said lever may be locked in different positions, substantially as described. 11th. The combination with a frame 41, an outer ring 42 secured to said frame, an inner ring 43 carried by said outer ring and adapted to be rotated therein, of arms 52 secured to said inner ring 43, a scraper-blade 53 pivotally mounted on said arms 52, a rock-shaft 55 journaled on said ring 43 and having arms 59, said arms 59 being pivotally connected with said scraper-blade, and a lever 56 secured to said rock-shaft, whereby the movement of said lever the angle of said scraper-blade with the ground may be adjusted, substantially as described. 12th. The combination with a frame 41, an outer ring 42 secured to said frame, and an inner ring 43 carried by said outer ring and adapted to be rotated thereon, of arms 52 secured to said inner ring 43, a scraper-blade 53 pivotally mounted on said arms 52, a rock-shaft 55 journaled on said ring 43 and having arms 59, links 61 pivoted to said arms 59 and to said scraper-blade, a lever 56 secured to said rock-shaft, whereby by the movement of said lever the angle of said scraper blade with the ground may be adjusted, and mechanism for locking said lever whereby said scraper-blade locked at the desired angle, substantially as described.