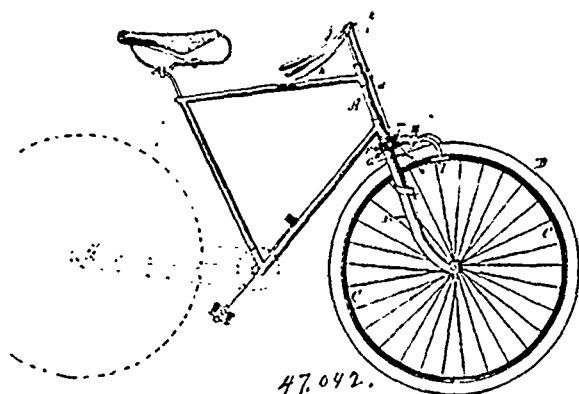


on the under portion of the metal or wood rim of the wheel when applied, in order to prevent wear, by a brake, on the rubber tire.
2nd. In combination with a bicycle (or analogous vehicle) a semi-

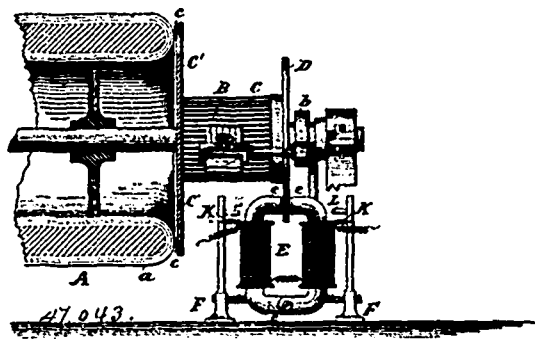


47,042.

circular shaped collar E, brake rods H, H, the foot lever G, brake shoes I, I, attached thereto, springs J, J, to press the brake shoes downward, and the foot lever to press them upwards against the underside of the rim C of the wheel, to prevent wear of the brake on the outer or rubber tire, substantially as described. 3rd. In combination with a bicycle (or analogous vehicle) the brake shoes I, I, attached to the brake rods H, H, and vertical rod d, the said rod d having secured thereto at its top end a hand lever h, pivoted at the extreme end, at the point k, to the handle bar j which an upward pressure on the outer end of the said lever h, draws the brake shoes I, I, in contact with the underside of the rim of the wheel (or plate interposed between the two) to brake the wheel, and the spring g to press the brake shoes downwards off the rim of the wheel to release it, substantially as and for the purpose specified. 4th. The combination with a bicycle of the brake-shoes I, I, brake rods H, H, collar c, spring g, rod d, hand lever h secured as shown to the rod d and handle bar j, all constructed to apply the brake to the underside of the rim of the wheel and release the same, substantially as described.

No. 47,043. Regulator for Electric Machines.

(Régulateur pour machines électriques.)

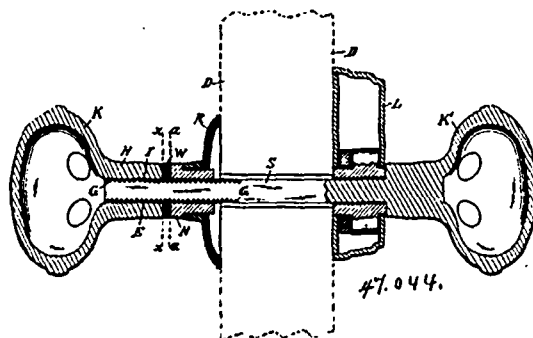


John Cummings Henry, Westfield, New Jersey, U.S.A., 13th September, 1894; 6 years.

Claim.—1st. An automatic regulator for a constant current dynamo electrical machine having a movable brush holder, comprising a disc of diamagnetic metal rotating with the armature shaft, a movable electro-magnet in circuit with the armature and having a polar projection in proximity to said disc, and connections between said magnet and the movable brush holder, substantially as described. 2nd. The combination with a dynamo electric machine having a movable brush holder, of a disc of diamagnetic metal rotating with the armature shaft, a tilting electro-magnet in circuit with the armature, and having a polar projection in proximity, to said disc, and connections between said magnet and the brush holder, substantially as set forth. 3rd. The combination with a dynamo electric machine having a movable brush holder, of a disc of diamagnetic metal rotating with the armature shaft, a U-shaped electro-magnet having its poles embracing the edge of the disc, and hinged at its lower end, and an arm rigidly attached to said magnet and connected with the brush holder, substantially as set forth. 4th. The combination with a dynamo electric machine having a movable brush holder, of a disc of diamagnetic metal rotating with the armature shaft, an electro-magnet having a polar projection arranged in proximity to said disc, and movable toward and away from said disc, and connections between said magnet and the brush holder, substantially as set forth. 5th. The combination with a dynamo electric machine having a movable brush holder, of a disc of diamagnetic

metal rotating with the armature shaft, an electro-magnet movable toward and away from said disc, a spring holding said magnet normally away from the disc, and connections between the magnet and the brush holder, substantially as set forth. 6th. The combination with a dynamo electric machine having a movable brush holder, of a disc of diamagnetic metal rotating with the armature shaft, a tilting U-shaped electro-magnet comprising two cores hinged together and having their poles on opposite sides of said disc, springs for holding said poles away from the disc, stops to limit the movement of said poles, and connections between the magnet and the brush holder, substantially as described.

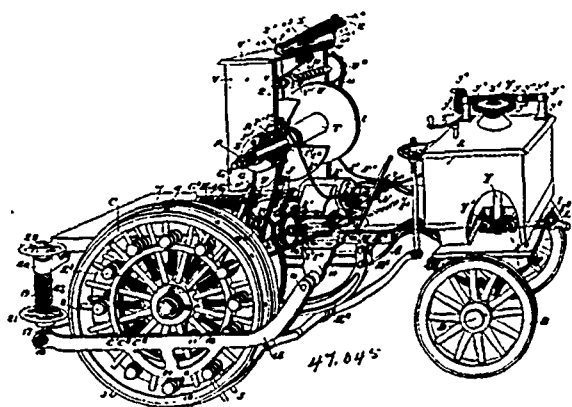
No. 47,044. Door Knob. (Bouton de porte.)



Albert E. White, Dutton, Ontario, Canada, 13th September, 1894; 6 years.

Claim. 1st. The washer W, having an internal opening O, and a screw threaded spindle S, fitted to said opening, in combination with the nut N, formed with a screw threaded socket I, and knobs K, and K, the latter having a shank H, formed with a screw threaded socket E, substantially as shown and described, and for the purpose set forth. 2nd. The washer W, having an internal opening O, formed with an angular or semi-circular face, in combination with a screw threaded spindle S, fitted to said angular or semi-circular face in said opening, the nut N, formed with a screw threaded socket I, and knobs K, and K, the latter having a shank H, formed with a screw threaded socket E, substantially as shown and described, and for the purpose set forth.

No. 47,045. Electric Wagon. (Wagon électrique.)



Oliver William Ketchum, Toronto, Ontario, Canada, 13th September, 1894; 6 years.

Claim.—1st. In an electric wagon, the combination, with the motor connected to a stationary source of an electric supply by two insulated cables, and driving wheels driven through gearing from the motor, of a wheel supporting the two wire cables and means by which the reel is rotated so that the cable is wound by the motor or unwound automatically in exact ratio to the travel of the vehicle, as and for the purpose specified. 2nd. In an electric wagon or vehicle a reel or coil located on the wagon and having wound upon it a cable of two insulating wires through which the current is conveyed from the dynamo to the motor on the wagon and means whereby the reel may be manipulated so as to wind or unwind the cable as the wagon is traveling, as and for the purpose specified. 3rd. The combination, with the motor F, main axle and driving wheels driven therefrom, of the reel and means for driving the same in the manner specified, the cable of the reel consisting of two insulated wires through which the current is conveyed from the dynamo to the motor as it is being wound or unwound off the reel during the travelling of the wagon, as and for the purpose specified. 4th. The combination, with the motor F, main axle and driving wheels driven therefrom, of the reel and means for driving the same in the manner specified, the cable of the reel consisting of two insulated wires through which the current is conveyed from the dynamo to the motor as it is being wound or unwound off the reel during the travelling of the wagon, as and for the purpose specified.