No. 35,389. Hulling Peas. (Battage des pois)

Charles P. Chisholm and John A. Chisholm, both of Oakville, Ontario, Canada, 8th November, 1890; 5 years.

tario, Canada, 8th November, 1890; 5 years.

Claim.—1st. The improvement in the art of hulling green peas, which consists in removing the same from the pods by impact, substantially as described. 2nd. The improvement in the art of hulling green peas, which consists in carrying the filled pods to an elevated position and impacting the filled pods while falling sonsto sever the connection of the two half-shells of the pods, and of the peas with the pods at one operation, substantially as described. 3rd. The process of hulling peas direct from the vine, which consists in subjecting the pea-vines with the green peas attached thereto, to the action cess of hulling peas direct from the vine, which consists in subjecting the pea-vines with the green peas attached thereto, to the action of impact openers, whereby the connections of the peas with the pod and of the half-shells of the pod are severed at one operation. 4th. In the above described process for hulling peas direct from the vine, a machine consisting of a revolving cylinder covered with perforated rubber, or leather, a revoluble hulling drum arranged within the cylinder and longitudinal obliquely arranged impact openers upon the drum.

No. 35,390. Artificial Fuel.

(Combustible artificiel,)

William Bainbridge McClure. Hamline, Minnesota, Thomas Hodg-son, Joseph Eugene McWilliams, John Williamson White and Edward Corning, all of St. Paul, Minnesota, U.S.A., 8th Novem-ber, 1890 - 15 ber, 1890; 15 years.

ber, 1890: 15 years.

Claim.—1st. The within described composition of matter to be used as an artificial fuel, consisting of pulverizel culm or coal dust, sand pulverized, burned or calcined lime dust, and melted naturally solid asphaltum having mixed with it naturally liquid asphaltum or its equivalent, substantially as specified. 2nd. The within described process of making artificial fuel, composed of coal dust, sand, pulverized calcined lime dust and asphaltums, which consists in first finely pulverizing the coal, then mixing with it, free from moisture, the sand and lime dust, then mixing with it, free from moisture, the with the asphaltum in a fluid state, then pressing the entire mass into blocks, and subsequently subjecting said blocks to a bath of cold water, as set forth. 3rd. In the process herein described, of making of a mixture of coal dust and asphaltum, setting and cooling said blocks by subjecting them, after they have been pressed, to a bath of cold water, as and for the purposes set forth. cold water, as and for the purposes set forth.

No. 35,391. System of Transporting Goods by Electricity. (Systems pour transporter les marchandises par l'electricité.)

David Gustavus Weems, Baltimore, Maryland, U.S.A., 10th November, 1890; 5 years.

Claim.—Ist. In an electric railway system, the main rails, the up-Claim.—1st. In an electric railway system, the main rails, the upper electric rail, and a train of cars, the front and rear ends of which are pointed so that the ancies will be below the longitudinal centre, of the car and brake mechanisms carried by the train and actuated by the turning on and cutting off of the main current, substantially as described. 2nd. In an electric railway system, a car olower bearing rails forming with said car, an electric circuit, and an automatic brake mechanism carried by the train, and comprising an electromagnet energized by the main current brake roils, carrying shoes and sliding rods having armatures which are attracted when the main current is turned on and springs for applying the brakes electric railway system, the locomotive and cars, with their main bearing wheels and upper smooth surface guide wheels, and the rails having a square configuration in cross-section, and the upper rail having a square configuration in cross-section, and the upper all having a square configuration in cross-section, and the upper electric railway system, the locomotive and cars, with their main bearing wheels and upper smooth surface guide wheels, and the arched sections of the frame having the rails secured therein, said rails having a square configuration in cross-section, and the upper rail having a tread narrower than the periphery or tread of the guide wheels, whereby said wheels may move laterally on the upper rail having a tread narrower than the periphery or tread of the guide wheels, whereby said wheels may move laterally on the upper rail substantially as herein described. 4th. An electric railway system, comprising main and upper guide rails, traveling cars provided with one of said wheels engaging the latter rail, an electric connection between sims on said cars, actuated by the turning on and off of the main rails are laid, aftame work having the arched sections in which the system, comprising the stationary dynamos, the traveling locomotive brake mechanisms of the current, and a means for reversing the motor on the train and of the current, and a means for reversing the motor on the train and forth. In an electric railway system for mail and express packages, a having the front end of the front end of the front end of the rear end of the rear car ling said train in rever effections, substantially as herein describ mail and express, a locomotive having an electric motor and a series of cars having ends adapted to telescope with each other, and pointed, and means for reversing the motors on the car and propeled. 7th. In an electric railway system for transporting packages of of cars connected therewith, said cars, having an electric motor and a series or telescope with adjacent frections, substantially as herein described diameter throughout, and provided with compressible wings, where custions behind, the wings resisting their inward movement, contact mechanisms, and a locomotive having from the electric railway system, customs behind, the wings resisting their inward movement, contact mechanisms, and a locomotive and rear

subsequent travel of the train, substantially as specified. subsequent travel of the train, substantially as specined. 10th. In an electric railway system, the main and upper electric guide rails, a motor a shifting electro-magnet and fixed armitures on the locomotive, and train of attached cars, said locomotive having a motor a shifting electro-magnet and fixed armitures on the locomotive, and a secondary current connected with the magnet, and changing the position of the mignet from one armature to the other whereby the motor is reversed, substantially as and for the purpose described. 11th. In an electric railway system, a locomotive having a motor, the cars, the lower bearing rails and the upper rail to which the main current is turned off and on, a magnet carried in a housing or box on the locomotive fixed armatures in said box and connected with the main current, a secondary current for moving the magnet from one armature to the other when the main current is cut off. from one armature to the other when the main current is cut off, and a spring for returning the magnet when the secondary current is removed, substantially as herein described. 12th. In an electric railway system, the main and guide rails, a main current charging the guide rail and leading therefrom to the motor on the locomotive, a box or housing having fixed armatures and shifting magnet therein, said armature being connected with the main current a second. and a spring for returning the mignate when the secondary current and a spring for returning the mignate when the secondary current and the substantially as herein described. 12th. Iran and the substantially as herein described. 12th. Iran and the substantially as herein described. 12th. Iran and the substantially as herein and the motor on the locomotive, a box or housing having fixed armatures and shifting magnet therein, said armature being connected with the main current, a secondary current, a removable plug in the circuit thereof for making and breaking the same, and connections from the secondary current to the muxnet whereby the position of the latter is changed and the mignature of the substantial of the substantial of the substantial of the latter is changed and the mignature of the substantial of the purpose de-cribed. 14th. In an electric railway system in which a train of cars is operated by a current from an electric railway system in which a train of cars is operated by a current from an electric railway system in which a train of cars is operated by a current from an electric railway system in which a train of cars is operated by a current from an electric railway system, the combination of a train of cars having brake mechanisms of contact points of varying resistance, and in the motor circuit, a switching lever adupted to one gue therewith, a second lever connect of with the first lever and a plural series of varying or adjustable whereby increased or reduced currents are automatically transmitting the first lever and apiral series of varying or adjustable and the electric rail of cars having brake mechanism and to tracks on electricitly charged rail, a series of railway system in which a train of cars is not electric anditial to the motor. Is the substantial was a second switching lever