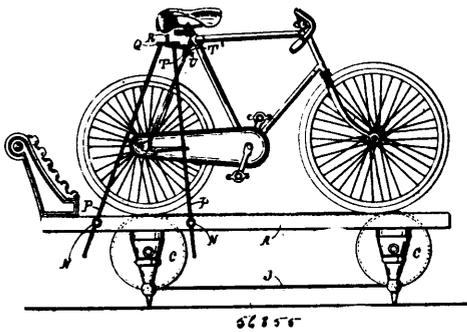
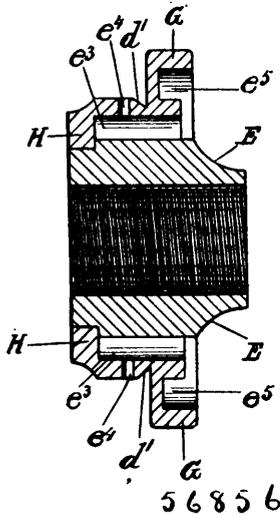


velocipede at or near its saddle and supports rising from the frame-work, for forming a universal joint or pivotal connection substan-



tially as and for the purpose set forth. 3rd. The construction, arrangement and combination of parts constituting my improved apparatus for teaching or practicing the riding of a velocipede, substantially as set forth and as illustrated in the accompanying drawings.

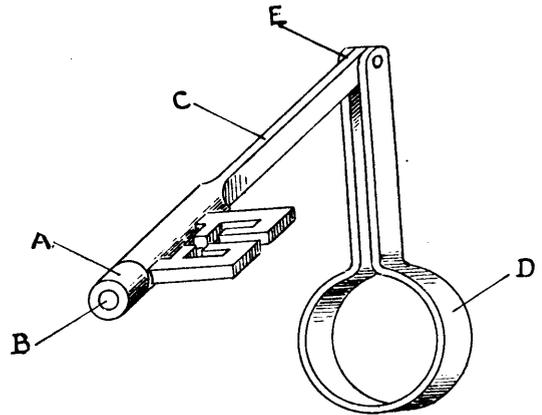
No. 56,856. Bicycle Hub. (Moyeu de bicycles.)



Jas. Anderson Coulter and John Morrow, both of Ingersoll, Ontario, Canada, 3rd August, 1897; 6 years. (Filed 14th July, 1897.)

Claim.—1st. A band or collar, J, in combination with a dust cap, dust cap flange or cone, the former being so fitted to the periphery of the latter, that its accidental adjustment thereon is avoided and completely prevented, while its adjustment by an operator is freely permitted, and means for preventing the lateral disengagement of said band therefrom, substantially as and for the purpose set forth. 2nd. A dust cap flange, a dust cap or cone, as the case may be, in which a groove or recess, d¹, is formed, in combination with a band or collar, J, formed with an inclined or flanged edge, c¹, substantially as and for the purpose set forth. 3rd. A band or collar, J, in which the holes, b¹, are formed, and which is provided with the flanged or inclined edges, c¹, and, n, in combination with a dust cap, dust cap flange or cone as the case may be, in which the groove, d¹, oil holes, e⁴, and oil passage, e³, are formed, substantially as and for the purpose set forth. 4th. A dust cap or cone formed with a recess or socket, e⁵, in combination with the body or shell, A, the end of the latter being fitted to said recess, e⁵, substantially as and for the purpose set forth. 5th. A cone, E, and a dust cap, G, formed of separate and independent pieces, and of a hardened and toughened material respectively, and means for securing them together, substantially as and for the purpose set forth. 6th. A cone, E, and a dust cap, G, formed of separate and independent pieces, and of a hardened and toughened material respectively, and sweated together, substantially as and for the purpose set forth.

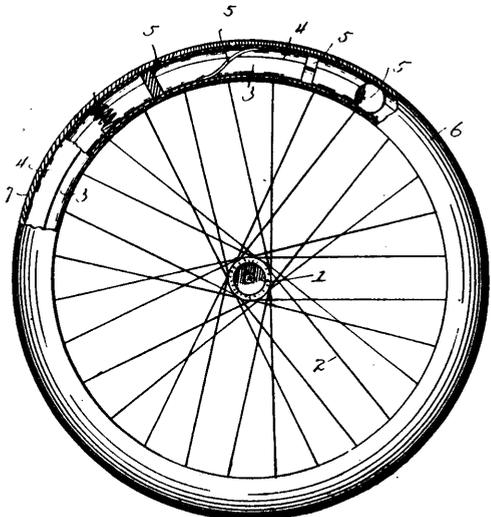
No. 56,857. Door Key. (Clef de portes.)



William George Glenn, Owen Sound, Ontario, Canada, 3rd August, 1897; 6 years. (Filed 20th July, 1897.)

Claim.—1st. The combination of the swivel A with the pin B, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the swivel A, the pin B and the joint E, substantially as and for the purpose hereinbefore set forth.

No. 56,858. Vehicle Wheel. (Roue de voitures.)



Er. Gabriel Corbett, Columbus, Ohio, U.S.A., 3rd August, 1897; 6 years. (Filed 14th July, 1897.)

Claim.—In a vehicle wheel, a hollow tire composed of similarly formed rims inversely disposed and having their side portions parallel and telescopically related, the side flanges of the outer rim embracing the side flanges of the inner rim, and the inner and outer portions being convex on their outer surface, the inner rim having direct connection with the outer ends of the spokes, elastic or spring cushions interposed between the rims, and a casing or jacket of india-rubber enveloping the rims and having its tread surface thickened and gradually diminishing in thickness toward the sides of the tire, and separable on a line corresponding with the medial line of the inner rim, substantially as and for the purpose set forth.

No. 56,859. Machine for Cutting or Grinding Metal Balls. (Machine pour couper et polir les boules métalliques.)

Friedrich Fischer, Schweinfurt-on-Main, Germany, 3rd August, 1897; 6 years. (Filed 24th March, 1897.)

Claim.—In a machine for cutting or grinding metal balls of the kind wherein a divided or undivided guiding disc and a cutting or