in pairs, the rollers of the respective pairs being carried upon opposite sides or faces of the respective peripheral projections, and having a common centre from which their axes radiate, substantially as set forth. 10th. In a gear wheel, the combination of a main body or disc provided on opposite faces with short axles, each consisting of a tubular sleeve, each sleeve on one side being in alignment with another on the opposite side, and a fastening passing through the bushings and the web or body of the wheel, and bearing upon the ends of the bushings. 11th. The combination of two co-acting wheels, each provided with peripheral ears or projections, and with lateral rollers on both outside faces of said ears, whereby pressure brought by one wheel upon the other tends to force or to hold the rollers of the co-acting wheels in engagement throughout their length.

No. 66,456. Back Rest for Cyclists.
(Appui dos pour cyclistes.)

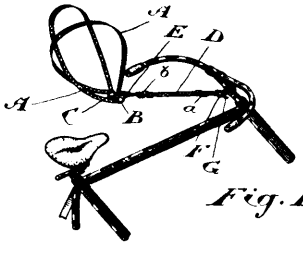


Fig. 1.

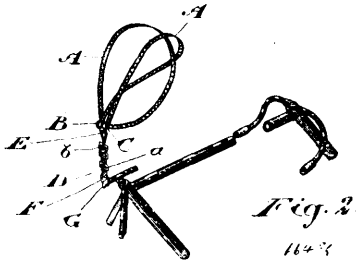
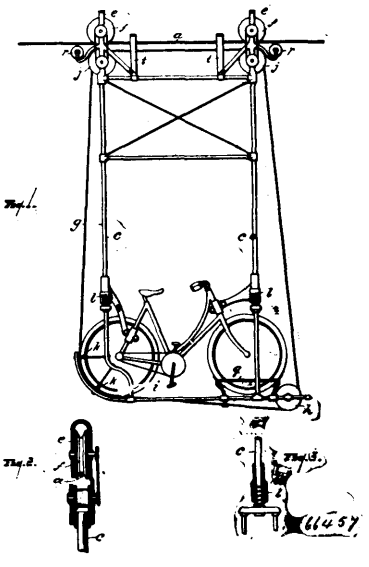


Fig. 2.

Alexander MacArthur, Chicago, Illinois, U.S.A., 1st March, 1900; 6 years. (Filed 10th July, 1899.)

Claim.—1st. A harness and back rest for cyclists, comprising shoulder straps having their ends connected to a strap, the other end of which is provided with a hook or eye, in combination with a hook or eye secured to the frame of the bicycle at or near the head, substantially as and for the purpose specified. 2nd. A harness and back rest for cyclists, comprising the shoulder straps, each crossing the body diagonally over the shoulders and having its ends secured to two rings, in combination with a strap provided at one end with means for detachably connecting it to the said rings, and at the other with an hook or eye, in combination with an hook or eye secured to the frame of the bicycle at or near the head, substantially as and for the purpose specified. 3rd. A harness and back rest for cyclists, comprising two shoulder straps, each crossing the body diagonally over the shoulders and having its ends secured to two rings, in combination with an adjustable strap provided at one end with means for detachably connecting it to the said rings, and at the other with an hook or eye, in combination with an hook or eye secured to the frame of the bicycle at or near the head, substantially as and for the purpose specified. 4th. A harness and back rest for cyclists, comprising two crossed shoulder straps crossing the body diagonally and secured together where they cross one another, the ends being secured to one or more rings, and a strap secured at one end to the said ring or rings and provided at its other end with means for engaging it with a portion of the bicycle, substantially as and for the purpose specified. 5th. A harness and back rest for cyclists, comprising two cross shoulder straps secured together where they cross, each crossing the body diagonally over the shoulders and each having its ends secured to two rings, an adjustable strap secured to the said rings and provided at its other end with means for engaging it with a portion of the bicycle, substantially as and for the purpose specified. 6th. A harness and back rest for cyclists, comprising two crossed shoulder straps secured together where they cross, each crossing the body diagonally over the shoulders and each having its ends secured to two rings, an adjustable strap detachably secured by a hook to the said rings and provided at its other end with means for engaging it with a portion of the bicycle, substantially as and for the purpose specified. 7th. A harness and back rest for cyclists, comprising two crossed shoulder straps, each crossing the body diagonally over the shoulders and each having its ends secured to two rings, an adjustable strap secured to the said rings and provided at its other end with means for engaging it with a portion of the bicycle, substantially as and for the purpose specified.

No. 66,457. Bicycle Trolley Car. *(Trollé de char-bicycle.)*



James Hartman Talbot, Detroit, Michgan, U.S.A., 1st March, 1900; 6 years. (Filed 16th June, 1899.)

Claim.—1st. A bicycle trolley, consisting of trolley wheels, a frame work adapted to support said trolley wheel and to receive a bicycle, and means operated by said bicyle for propelling said trolleys, substantially as described. 2nd. A bicycle trolley, consisting of trolley wheels, a framework adapted to snpport said trolley wheels, and means under the control of the rider for propelling said trolley, substantially as described. 3rd. A bicycle trolley, consisting of a suitable framework, trolley wheels mounted in said framework, means for supporting a bicycle in said frame, and propelling means connecting said bicycle with the trolley, substantially as described. 4th. A bicycle trolley, consisting of trolley wheels suitably mounted, a framework adapted to receive a bicycle, means for propelling the trolley wheels, and a belt connecting the wheels of said bicycle with said means for propelling the trolley wheels, substantially as described. 5th. A bicycle trolley, consisting of a suitable framework, trolley wheels mounted in said framework, a belt adapted to operate said trolley wheels, and a driving mechanism supported by and adapted to drive said belt, substantially as described. 6th. A bicycle trolley, consisting of a suitable framework, trolley wheels mounted in said frame, suitable clamping mechanisms for securing a bicycle in the frame, and a belt adapted to drive said trolley wheels and to support and be driven by said bicycle, substantially as described. 7th. The combination of a bicycle, a trolley carriage adapted to support said bicycle, and means for propelling said trolley carriage operated by said bicycle, substantially as described. 8th. The combination of the trolley, a carriage adapted to transport one or more persons, a belt suspended from said trolley arranged to support said carriage and drive said trolley, and means for driving said belt, substantially as described. 9th. The combination of the bicycle, a suitable framework to receive said bicycle, trolley wheels mounted in said frame, a belt adapted to drive said trolley and to support and be driven by the bicycle, and means for retaining said belt in position under said bicycle wheels, substantially as described. 10th. In a bicycle trolley, a frame adapted to support the bicycle, and a clamping device arranged to clamp the front fork to the frame and to hold the same against rotation, substantially as described. 11th. In a bicycle trolley, a frame adapted to support the bicycle, and the clamping bolt arranged to grip the fork to hold the same rigid and against side motion, substantially as described. 12th. In a bicycle trolley, the trolley wheels, the upper and lower frames, the trolley wheels mounted in the upper frame, the prime motor supported in the lower frame, the extension connection between the upper and lower frames, and the driving belt whereby the weight of the lower frame and the motor keep the belt taut, substantially as described. 13th. In a bicycle trolley, the upper and lower frames, the trolley wheels, the prime motor, means connecting the upper and lower frames arranged to allow for their extension, the driving belt, and a spring arranged to relieve excessive weight on the belt, substantially as described. 14th. In a bicycle trolley, the upper and lower frames, means connecting the frames arranged to allow for their extension, and means arranged to limit the extension, substantially as described. 15th. In a bicycle trolley, the combination of the frame, the trolley wheels mounted in said frame, and the over-