H. VERMEER.

STAND FOR MOTOR CYCLES.

APPLICATION FILED OCT. 19, 1914.

1,156,568. Patented Oct. 12, 1915.

Fig. 1.

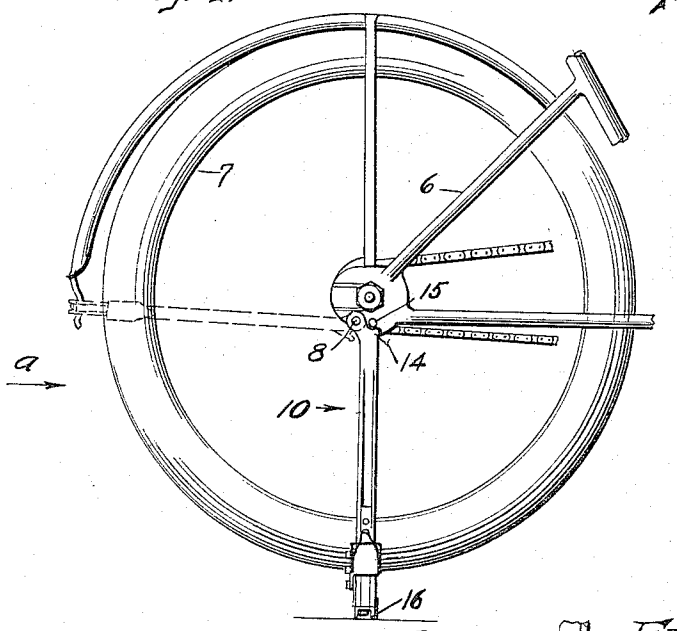


Fig. 2.

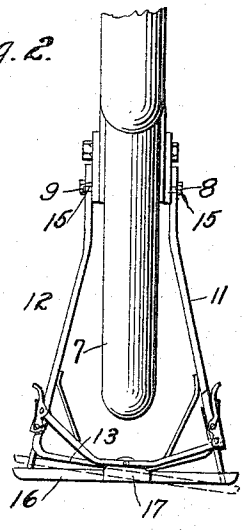


Fig. 4

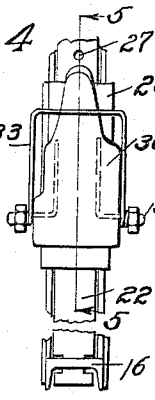


Fig. 5.

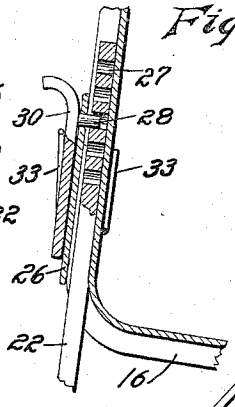


Fig. 3.

Witnesses

B. A. Rife

Marguerite Bates.

Inventor

Herbert Vermeer

By Howard Thomas

Attys

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HERBERT VERMEER, OF LOS ANGELES, CALIFORNIA.

STAND FOR MOTOR-CYCLES.

1,156,568. Specification of Letters Patent. Patented Oct. 12, 1915.

Application filed October 19, 1914. Serial No. 867,356.

To all whom it may concern:

Be it known that I, HERBERT VERMEER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles, State of California, have invented new and useful Improvements in Stands for Motor-Cycles, of which the following is a specification.

This invention relates to a stand for motorcycles, and particularly pertains to improvements in the form of stand disclosed in my co-pending application Serial Number, 845,071, filed June 15, 1914.

It is the object of this invention to provide a stand for motorcycles of the type that are pivoted to the rear frame thereof and adapted to be disposed to support the rear wheel of the cycle clear of the ground, and which can be swung to an inoperative position when the cycle is in use, and the particular object of the invention is to provide a stand of this character which is adjustable so that its base may be set to conform to the inclination of the surface on which it is supported and operated from either side of the stand.

A further object is to provide a motorcycle stand having a pivoted base member with means for latching the base member in various positions in relation to the stand in which the latching mechanism may be disengaged from either side of the stand, thus permitting ready operation of the latch mechanism and the adjustment of the base member when the frame is exposed adjacent a curb or wall.

Another object is to provide a means for locking the base member on each side of the frame with means connecting the locking members whereby when one of the locking members is moved to its engaging or released position the member will be operated therewith.

The invention is illustrated in the accompanying drawing, in which:

Figure 1 is a view in side elevation of the rear portion of a motorcycle frame showing the stand as applied thereto and in its operative position. Fig. 2 is a view in end elevation as seen in the direction indicated by the arrow —*a*— in Fig. 1. Fig. 3 is a view in elevation of the lower portion of the stand showing the manner in which the locking members are operated simultaneously from either side of the stand. Fig. 4 is a detail end view as seen in the direction of the arrow —*b*— in Fig. 3. Fig. 5 is a detail vertical section on the line 5—5 of Fig. 4.

More specifically, 6 indicates the rear portion of the motorcycle frame which may be of any suitable construction and on which the motorcycle wheel 7 is mounted in the ordinary manner. Pivotally connected to the frame 6 by means of pivot pins 8 and 9 is a substantially U-shaped frame 10 preferably formed of channel iron and having its side members 11 and 12 diverging from their point of pivotal connection with the pivot pins 8 and 9 to their intersection with the connecting portion 13 thereof which is preferably curved downwardly.

The side members 11 and 12 are formed with rearwardly projecting portions 14 adapted to engage studs 15 on the frame 6 to limit their pivotal movement in one direction and maintain them in their vertical position as shown in Fig. 1 to form a support for the frame 6 as is common in motorcycle stand construction. Pivotally mounted to the portion 13 and arranged therebeneath is a base member 16 formed of inverted channel iron having an upwardly extending flange 17 thereon which is pivotally connected to the member 13 by means of a pivot pin 18. The outer ends of the base member 16 are formed with slots 19 and 20 through which the lower ends of upwardly extending bars 21 and 22 project; the lower ends of the bars 21 and 22 being formed with lateral projections 23 and 24 which engage the undersides of the side walls of the slots 19 and 20 and form pivotal engagements with the base member 16.

The bars 21 and 22 extend upwardly between the flanges on the side members 11 and 12 of stand 10 and are held in place thereon by means of guide plates 25 and 26 which are secured to the members 11 and 12 and extend across the outer faces thereof. The upper portions of the bars 21 and 22 are formed with a series of vertically alined apertures 27 which are adapted to be engaged by pins 28 mounted on rocker arms 29 and 30 having side flanges pivotally connected to the sides of the stand 10 by means

of pivot pins 31 and 32; the rocker arm 29 being pivoted intermediate its ends and the arm 30 pivoted adjacent its lower end.

The pins 28 project through apertures in the plates 25 and 26 and are normally held in engagement with the apertures 27 in the bars 21 and 22 by means of springs 33 which are wound around the pivot pins 31 and 32 and bear against the upper portions of the rocker arms 29 and 30. The rocker arms 29 and 30 are connected together in such manner that when one of the arms is rocked in either direction the other arm will be moved simultaneously in an opposite direction. The connection between the arms 29 and 30 consists of a bent bar 34 one end of which is pivotally connected to the lower end of the arm 29 by means of a pin 35 and the opposite end of which is pivoted intermediate the ends of the arm 30 by means of a pin 36.

The bar 34 is formed with a slot 37 intermediate its ends through which the pivot pin 18 extends; a head on the pivot pin engaging the sides of the slot 37 to retain the bar 34 against displacement. The upper ends of the arms 29 and 30 are bent outwardly to facilitate their being rocked outwardly by the foot in opposition to the springs 33. When the bars 21 and 22 are engaged by the pins 28 on the arms 29 and 30 the base member 16 will be held rigidly against movement.

In the operation of the invention, when it is desired to adjust the position of the base member 16 either the arm 29 or 30 is rocked outwardly as indicated in dotted lines in Fig. 2, which operates through the bar 34 to rock the opposite arm outwardly so as to disengage the pins 28 from the aperture 27 in the bars 21 and 22. The bars 21 and 22 on being released from engagement with the pins 28 permit the base member 16 to be adjusted at any desired inclination; the base member 16 rocking on its pivot pins 18 and the bars 21 and 22 sliding vertically in relation to the side members 11 and 12 until the desired position of the base member 16 in relation to the stand 10 is reached whereupon the operated arm 29 or 30 is released and restored to normal by the action of the springs 33 and the pins 28 engaged with the apertures 27 in the bars 21 and 22, thus locking the base member 16 against movement.

By providing a pair of the arms 29 and 30 and connecting same whereby they may be operated simultaneously the bars 21 and 22 may be released and the base member 16 adjusted to conform to surface on which it is to be supported when the stand is disposed adjacent a curb or wall.

What I claim is:

1. In a motorcycle stand, the combination with a supporting frame, of a base plate pivotally connected to said supporting frame, means for locking said base plate on opposite sides of said frame at various inclinations in relation thereto, and means for releasing the base plate operable from either side of the frame.

2. A motorcycle stand comprising a U-shaped member pivotally connected to the motorcycle, a base-plate pivotally mounted on the connecting portion of the U-shaped frame, a latch for locking the base-plate at various inclinations to the U-shaped frame, and means for operating said latch from either side of the frame.

3. A motorcycle stand, comprising a supporting frame pivoted to a motorcycle frame, a base-plate pivotally connected to said supporting frame, means for locking said base-plate at various inclinations in relation to the supporting frame, and means for operating the locking means from either side of the supporting frame.

4. In a device of the character described, a supporting frame, a base-plate pivotally connected to said frame, a pair of rocker arms pivotally mounted on opposite sides of the frame, means on said base-plate detachably engageable with said rocker arms for locking the base-plate at various inclinations in relation to the frame, and means whereby when either rocker arm is actuated the other rocker arm will be operated simultaneously therewith.

5. In a motorcycle stand, a frame, a base-plate pivotally connected to said frame, a pair of upwardly extending rods connected to said base plate, a pair of rocker arms pivoted on the frame on opposite sides thereof, means on said rocker arms for engaging the rods for holding the latter against movement, and connections between the rocker arms, whereby when either of the rocker arms is actuated the other will be operated therewith.

6. A motorcycle stand, comprising a supporting frame pivoted to a motorcycle frame, a base-plate pivotally connected to said supporting frame, an upwardly extending rod arranged at each side of the frame and connecting with the base-plate, a pair of rocker arms mounted on the frame adapted to engage said rods, springs for normally maintaining the arms in engagement with the rods, and means whereby when either of the arms is actuated the other will be operated therewith.

7. A motorcycle stand, comprising a frame pivoted to the motorcycle frame, a base plate pivotally connected to said frame, a pair of rods on opposite sides of said frame connected to said base plate, a pair of rocker arms on the frame, means on said arms for engaging the rods, spring means for nor-

mally maintaining the arms in engagement with the rods, and a bar connecting said arms, whereby when one of the arms is actuated the other arm will be operated therewith.

8. In a motorcycle stand, the combination with a supporting frame, a base plate pivotally connected to said supporting frame, means for locking said base plate at various inclinations in relation to the frame and means for operating said locking means from either side of the frame.

In witness that I claim the foregoing I have hereunto subscribed my name this 21st day of September, 1914.

HERBERT VERMEER.

Witnesses:
MARGUERITE BATES,
MARIE BATTEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."