A. LUNDSTROM.

STAND FOR MOTOR CYCLES.

APPLICATION FILED OCT. 30, 1909.

962,369.

Patented June 21, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

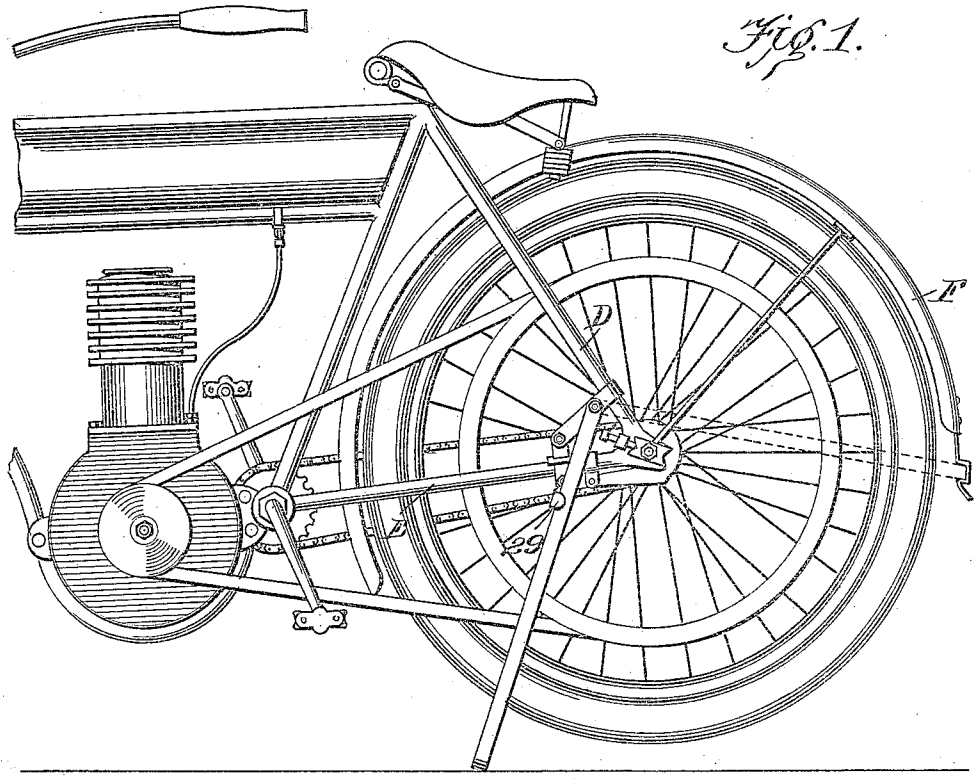
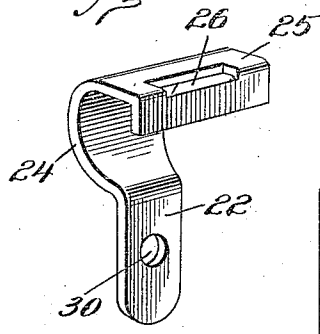


Fig. 8.



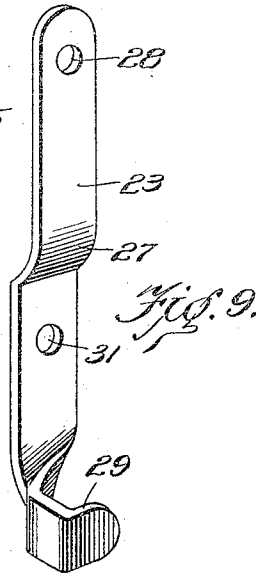
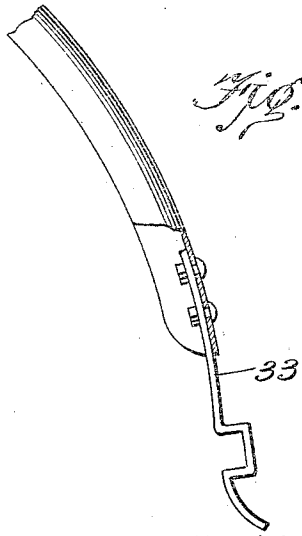


Fig. 9.

Fig. 10.



Witnesses

Geo. Ackman Jr.

Wm. W. Bagger

Inventor

Albert Lundstrom

By Victor J. Evans

Attorney

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

A. LUNDSTROM.

STAND FOR MOTOR CYCLES.

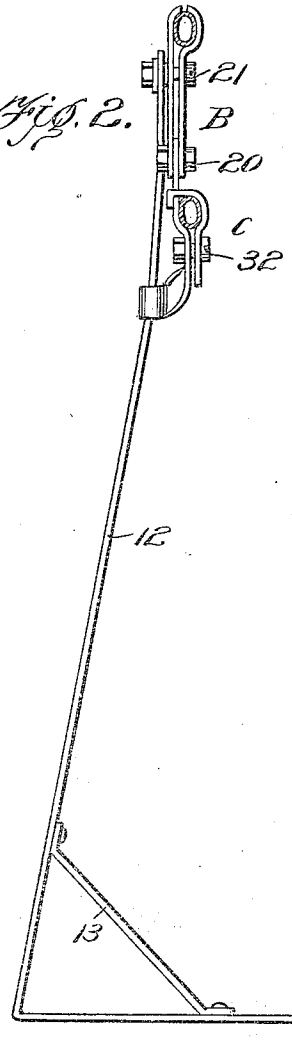
APPLICATION FILED OCT. 30, 1909.

962,369.

Patented June 21, 1910.

2 SHEETS—SHEET 2.

Fig. 2.



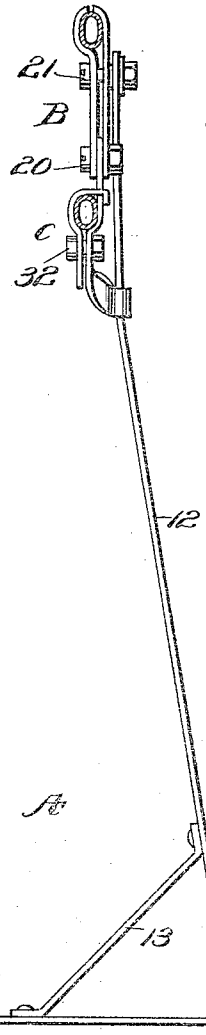


Fig. 3.

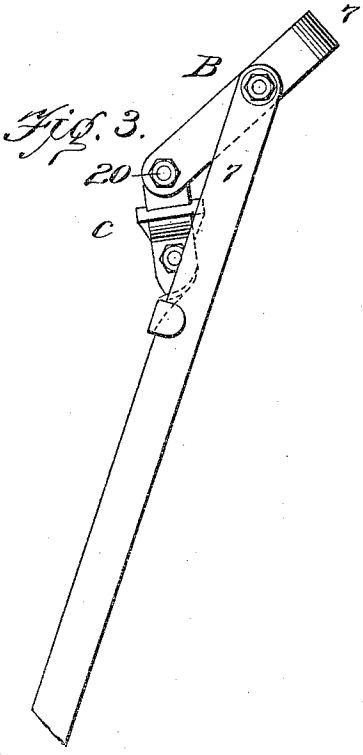


Fig. 4.

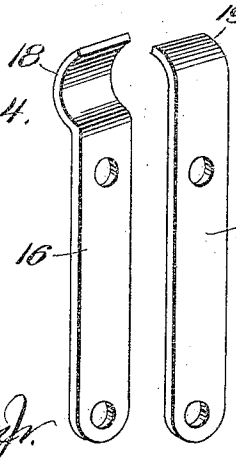


Fig. 5.

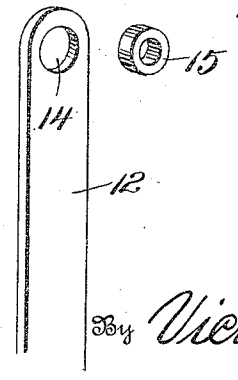


Fig. 6.

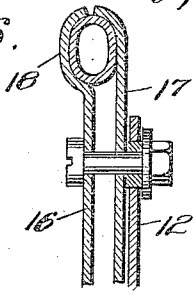


Fig. 7.

Witnesses

F. A. Ackmann Jr.

Wm. Bagger

Inventor

Albert Lundstrom

By Victor J. Evans

Attorney

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALBERT LUNDSTROM, OF OMAHA, NEBRASKA.

STAND FOR MOTOR-CYCLES.

962,369. Specification of Letters Patent. **Patented June 21, 1910.**

Application filed October 30, 1909. Serial No. 525,436.

To all whom it may concern:

Be it known that I, ALBERT LUNDSTROM, a citizen of the United States of America, residing at Omaha, in the county of Douglas and State of Nebraska, have invented new and useful Improvements in Stands for Motor-Cycles, of which the following is a specification.

This invention relates to stands for motor cycles for the purpose of maintaining the same in an upright position while standing still, and it has among its objects to produce a device of simple and improved construction which may be readily attached or applied to any of the various makes of motor cycles.

A further object of the invention is to provide a device of the class described having attaching means engaging the upper and lower rear forks of the machine so as to divide or distribute the strain equally upon the frame.

A still further object of the invention is to simplify and improve the construction of the clamps forming the attaching means of the device.

Still further objects of the invention are to simplify and improve the general construction and operation of a device of the class referred to.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawings,—Figure 1 is a side elevation illustrating a portion of a motor cycle equipped with the improved supporting stand. Fig. 2 is a sectional view taken through the upper and lower rear forks of a motor cycle, showing the improved supporting stand and its attaching means in elevation on a larger scale than in Fig. 1. Fig. 3 is a detail side view, showing the upper portion of the supporting stand and its attaching means. Figs. 4 and 5 are perspective detail views of the members constituting one of the upper clamps. Fig. 6 is a perspective detail view, showing the upper end of one of the side members of the supporting stand and the bushing for the same. Fig. 7 is a sectional detail view taken on the plane indicated by the line 7—7 in Fig. 3. Figs. 8 and 9 are perspective detail views of the members constituting one of the lower clamps. Fig. 10 is a detail view in sectional elevation, showing a portion of the fender and the stand-engaging spring catch.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved supporting stand comprises a yoke A, best seen in Fig. 2, said yoke having a flat bottom 11 and upwardly convergent side members 12, the latter being connected with the bottom member by reinforcing braces 13. The side members 12 are each provided adjacent to its upper end with an aperture 14 for the reception of a bushing 15, the latter being of greater thickness than the side member proper.

The supporting stand is connected with the frame of the motor cycle by means of upper and lower clamping devices B and C engaging, respectively, the upper and lower rear frame forks D and E of the machine, two such clamping devices being obviously used at each side of the machine. The upper clamping device includes clamping members 16 and 17 provided adjacent to their upper ends with frame-engaging jaws 18, 19 which may be conveniently formed by properly bending the metallic straps composing the clamping members, said clamping members being connected adjacent to their lower ends by a bolt 20 and adjacent to the jaws at their upper ends by a clamping bolt 21; the latter also extends through the bushing 15 at the upper end of one side member of the supporting stand, which latter is pivotally supported. Each of the lower clamping devices comprises clamping members 22 and 23 which with reference to the relative position occupied when the device is applied to the frame of the machine may be designated, respectively, as the inner and outer clamping members. The inner clamping member 22 is provided adjacent to its upper end with a clamping jaw 24 having a hook-shaped out-

ward extension 25 adapted to overlie the frame fork member and having a slot 26. The outer clamping member 23 is provided intermediate its ends with an offset forming a clamping jaw 27 which mates and coöperates with the jaw 24. The upper portion of the member 23 is adapted to be extended through the slot 26 and is provided adjacent to its upper end with a bolt hole 28. The lower portion of the clamping member 23 is bent adjacent to its lower end to form the receiving hook or loop 29. The clamping members 22 and 23 are provided below and adjacent to the frame-engaging jaws with apertures 30 and 31 for the passage of a connecting bolt 32. A spring catch 33 adapted to receive and engage the bottom member 11 of the supporting stand is riveted or otherwise suitably secured upon the fender or mud guard F of the machine.

From the foregoing description taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood by those skilled in the art to which it appertains. The clamping devices B and C are pivotally connected together by the bolt 20 adjacent to the lower ends of the upper clamping devices, the upward extensions of the outer members of the lower clamping devices being inserted between the members 16 and 17 of the upper clamping devices, and the connecting bolts 20 passing through the apertures 28; the said clamping devices may thus be readily mounted upon the upper and lower rear forks of various makes of machines where said rear forks meet at different angles. The stand or supporting member A is pivotally mounted upon the clamping bolts 21 of the upper clamping devices, the bushing 15 at each side serving as a spacing member to prevent the supporting stand from binding. The supporting stand when in use engages the receiving hooks or loops 29 at the lower ends of the outer clamping members of the lower clamping devices, as will be clearly seen in Fig. 1. When the supporting stand is not in active use it may be raised to the position indicated in dotted lines in Fig. 1, when it will be held securely by the spring catch 33. To place the supporting stand in position for use it is released from the catch 33 and permitted to drop upon the ground, after which by pushing the machine in a rearward direction, the side members 12 of the stand will drop into the loops 29, and the machine will thus be securely supported. By pushing the machine forwardly the hind wheel will pass over the bottom member of the stand, and the latter may then readily be lifted to the supported position shown in dotted lines in Fig. 1. When the device is in use, the receiving loops 29 engaging the side members of the stand will maintain the machine rigidly in an upright position. The device is simple, easily operated and efficient in use, and it will not interfere with any of the moving parts of the machine to which it is applied. The supporting stand proper may be readily detached when the machine is to be used for racing purposes by simply removing the nuts from the bolts 21, when the side members of the supporting stand may be sprung out of engagement with said bolts, after which the nuts may be replaced.

Having thus described the invention, what is claimed as new, is:—

1. A device of the class described comprising a pair of independently operable clamping devices, each including two side members and bolts whereby said side members may be drawn together to clamp an object therebetween, and a pin or bolt whereby said clamping devices are connected together, said pin or bolt extending through one side member of each clamping device so that the said clamping devices are capable of independent movement about a common axis.

2. In a device of the character described, a pair of clamping devices each comprising a pair of clamping members, said clamping devices being pivotally connected together on a common axis, one member of one of said devices being extended between and pivotally connected with the members of the other clamping device.

3. In a device of the character described, and including a pair of clamping devices pivotally connected together on a common axis a fork-engaging clamping device comprising an inner member having a clamping jaw and a slotted-hook extending therefrom, an outer member extending through said slot and having a hook-shaped extension at its lower end, and a connecting bolt.

4. In a device of the character described, a lower fork-engaging clamp comprising two members, one of which has a slot for the passage of the other member, the latter being provided with a receiving loop adjacent its lower end, an upper fork-engaging clamp comprising two members including between them the upward extension of one member of the lower clamp, means for pivotally connecting the members of the upper clamp with the member of the lower clamp extending therebetween, clamping bolts extending through the members of the two clamps, and a supporting stand or yoke pivotally supported upon the clamping bolt of the upper clamp.

5. In a device of the character described, a yoke-shaped supporting stand, upper fork-engaging clamps, each comprising two clamping members, a clamping bolt and a connecting bolt; lower fork-engaging clamps each comprising two clamping mem-

bers and a clamping bolt, the outer clamping member of each lower clamp being extended between and pivotally connected with the members composing one of the upper clamps, and the outer clamping member of each lower clamp being provided adjacent to its lower end with a stand-receiving loop; the side members of the yoke-shaped stand being pivotally mounted upon the clamping bolts of the upper clamps.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT LUNDSTROM.

Witnesses:

FRANK SNYDER,

N. B. GLODEN.