

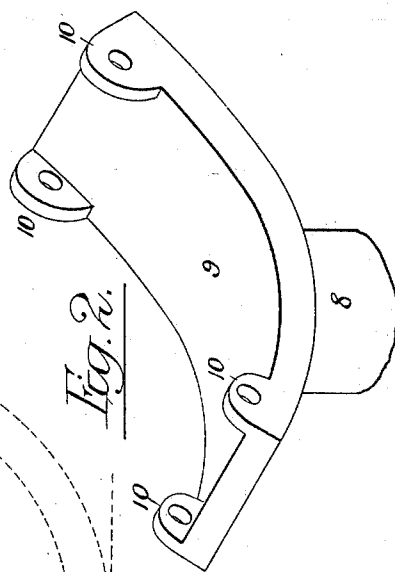
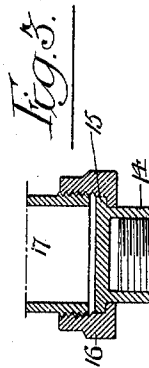
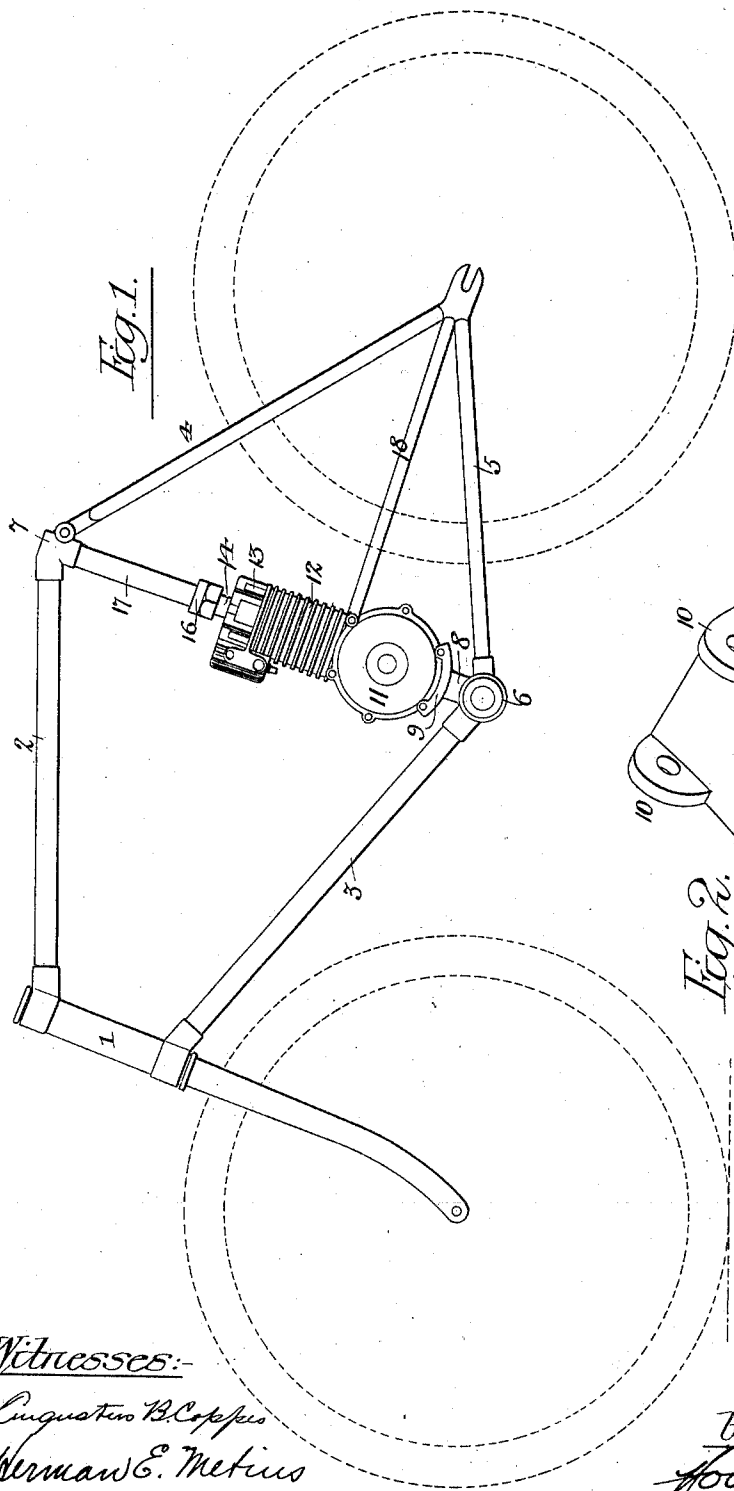
No. 760,320.

PATENTED MAY 17, 1904.

W. DRIVER.
MOTOR CYCLE.

APPLICATION FILED MAY 12, 1903.

NO MODEL.



Witnesses:-

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UNITED STATES PATENT OFFICE.

WALTER DRIVER, OF PHILADELPHIA, PENNSYLVANIA.

MOTOR-CYCLE.

SPECIFICATION forming part of Letters Patent No. 760,320, dated May 17, 1904.

Application filed May 12, 1903. Serial No. 156,825. (No model.)

To all whom it may concern:

Be it known that I, WALTER DRIVER, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain improvements in Motor-Cycles, of which the following is a specification.

The object of my invention is to so mount a motor upon the frame of a motor-cycle that while said motor is securely and rigidly supported upon the frame it can be readily detached therefrom when such detachment becomes necessary. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of the frame of a motor-cycle with motor structure mounted thereon in accordance with my invention. Fig. 2 is an enlarged perspective view of the lower member of the motor-support, and Fig. 3 is an enlarged sectional view of the upper member of the same.

The framework of the machine may be constructed in any suitable manner, the frame shown in the present instance comprising the steering-head 1, upper bar 2, lower diagonal bar 3, rear fork 4, lower fork 5, crank-hanger 6, and seat-post socket 7. Projecting upwardly from the crank-hanger is a stud 8, which terminates at its upper end in a segmental shoe 9, the latter having at each corner an upwardly-projecting and perforated ear 10 and the curve of the shoe conforming to the curve of the periphery of the crank-case 11 of the motor, so that the latter can be firmly seated in the shoe and can be secured thereto by bolts engaging with the perforated ears 10 of said shoe.

The cylinder structure 12 of the motor has a cap 13, and projecting upwardly from the latter is a nipple 14, which has at its upper end an annular flange 15, the latter being engaged by the flange of a coupling-nut 16, whose threaded portion engages the threaded lower end of a post 17, depending from the seat-post socket 7. By reason of this con-

nection the motor is firmly and rigidly mounted upon the frame and yet can be very quickly detached therefrom by loosening the coupling-nut 16 and removing the bolts which connect the crank-case to the supporting-shoe 9.

The use of the post 17 and coupling-nut 16 also provides a lighter form of support than the forked post which is sometimes used, my improved connection having no portion extending over the cylinder, so that the latter is free on all sides for the circulation of air, and all portions of it are readily accessible.

Where an extremely-rigid brace for the motor is required, I extend a rear brace 18 from the junction of the crank-case 11 and cylinder 12 to the point of junction of the rear fork 4 and lower fork 5, or, if desired, one of these braces may be used on each side of the frame.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. The combination, in a motor-cycle, of the crank-case of the motor, with a frame having a segmental shoe conforming to the crank-case and serving as a support therefor, said shoe having perforated ears lying alongside of the crank-case, and bolts engaging the crank-case and the ears of the shoe whereby it is secured to the crank-case, substantially as specified.

2. The combination in a motor-cycle, of the motor-cylinder, means for connecting said cylinder to the upper portion of the frame of the motor-cycle, the crank-case of the motor, with a frame having a segmental shoe conforming to the crank-case and serving as a support therefor, said shoe having perforated ears lying alongside of the crank-case, and bolts engaging the ears and the crank-case, whereby it is secured to the crank-case.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALTER DRIVER.

Witnesses:

F. E. BECHTOLD,
JOS. H. KLEIN.