No. 675,716. Patented June 4, 1901.

J. R. CARTER.

PITMAN.

(Application filed Mar. 2, 1901.)

(No Model.) 2 Sheets—Sheet 1.

FIG. 1.

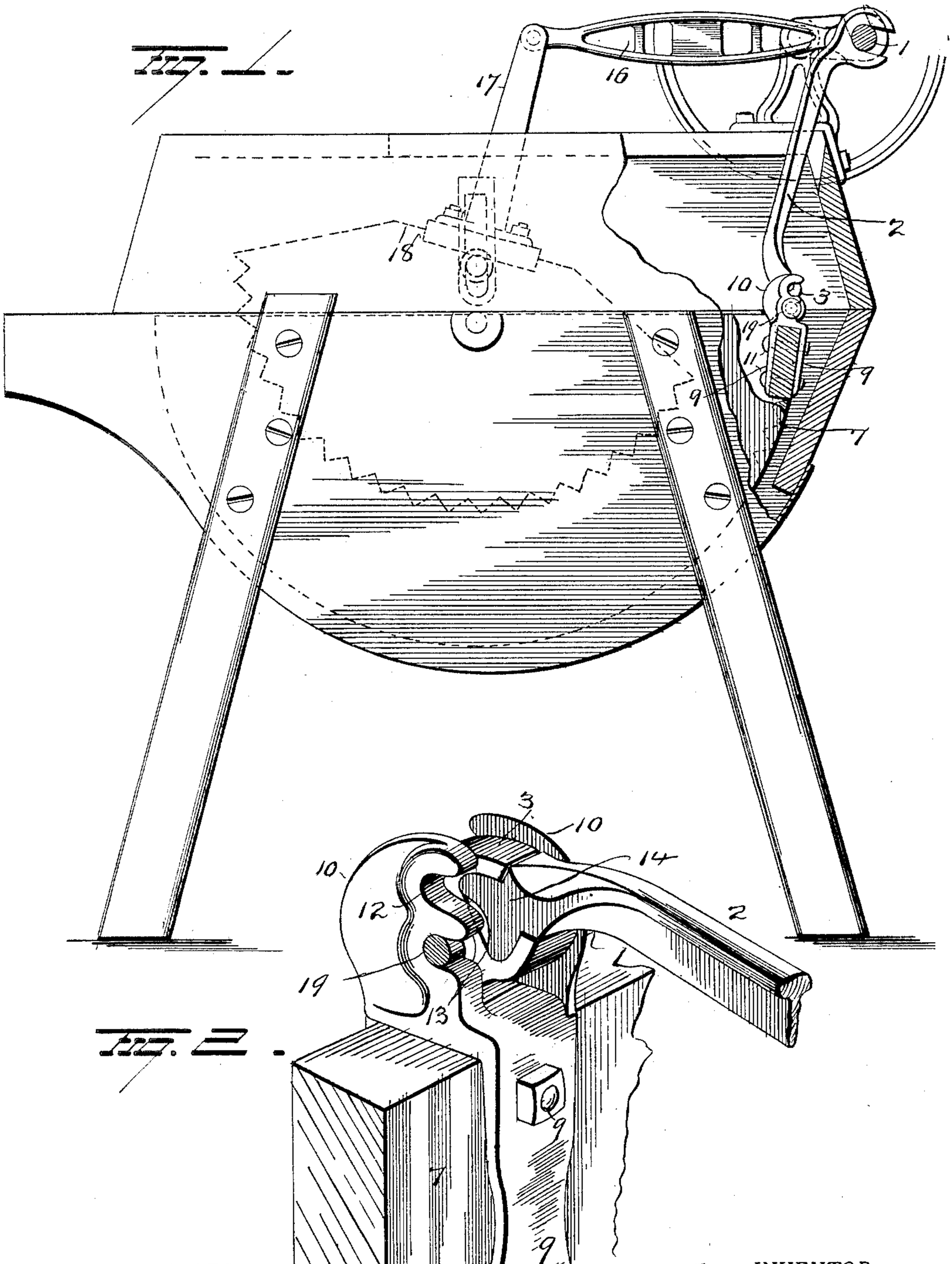

FIG. 2.

WITNESSES
E. L. Nottingham
G. F. Downing.

INVENTOR
J. R. Carter
By H. A. Seymour
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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FIG. 3.

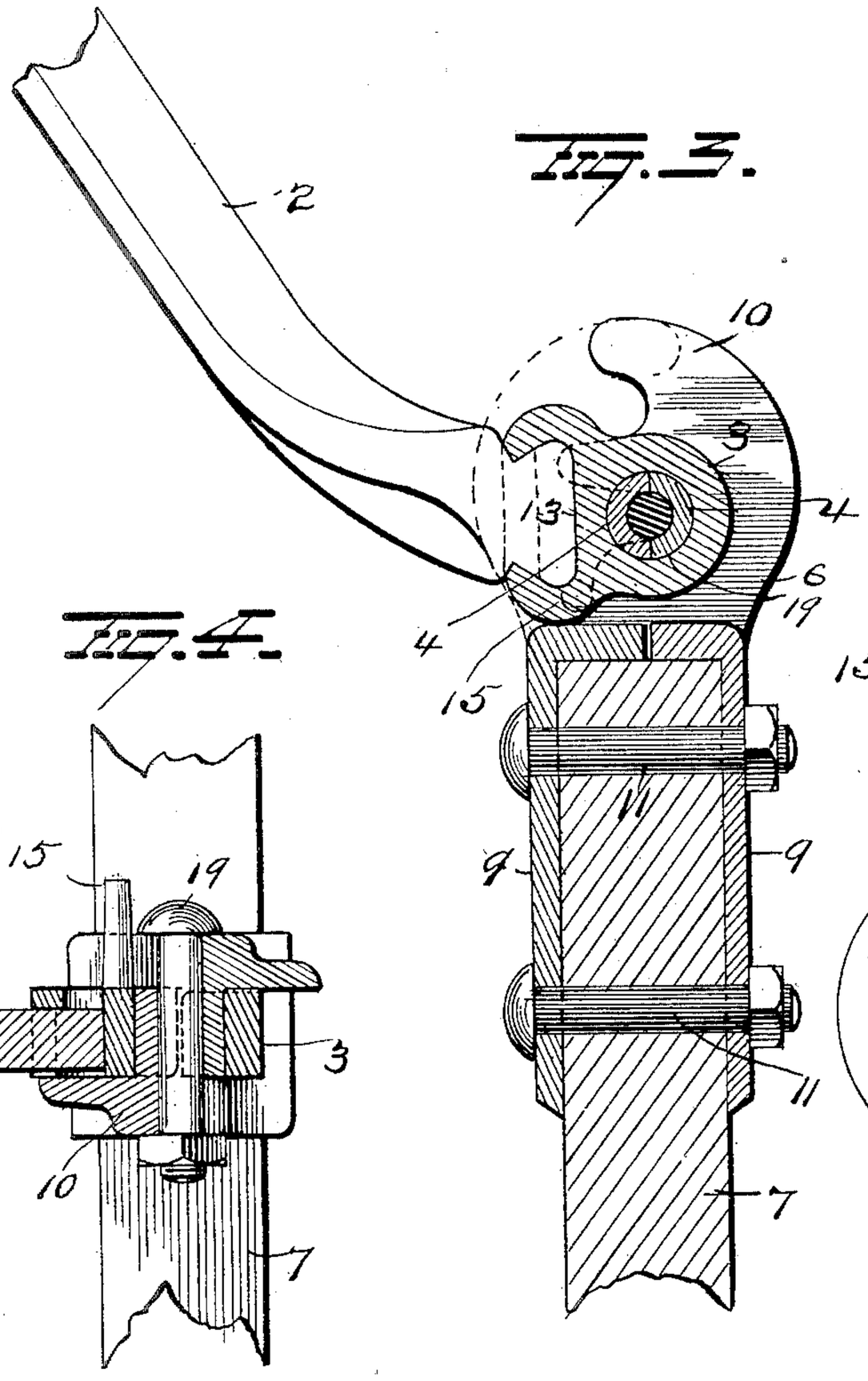
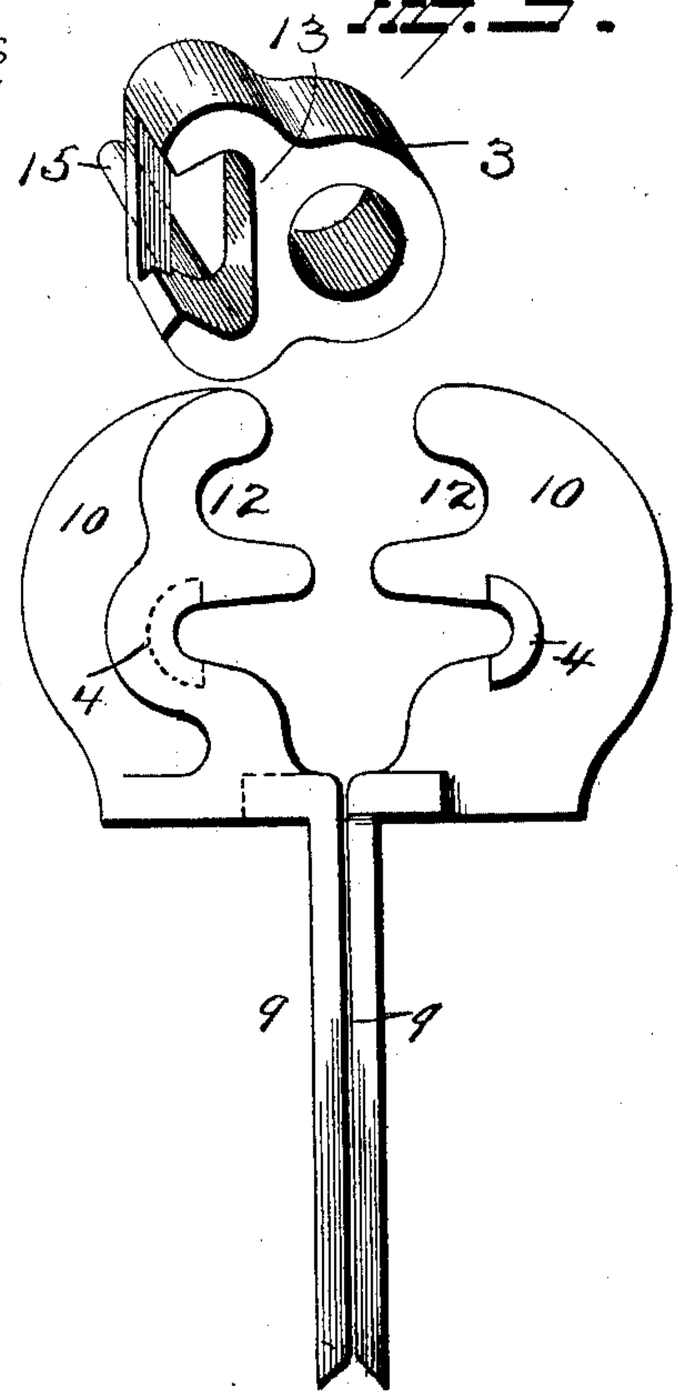


FIG. 4.

FIG. 5.



WITNESSES

C. J. Nottingham

G. F. Downing

INVENTOR

J. R. Carter

By H. A. Seymour

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN R. CARTER, OF AUGUSTA, KENTUCKY, ASSIGNOR TO ERNST H. HUENEFELD, OF CINCINNATI, OHIO.

PITMAN.

SPECIFICATION forming part of Letters Patent No. 675,716, dated June 4, 1901.

Application filed March 2, 1901. Serial No. 49,605. (No model)

To all whom it may concern:

Be it known that I, JOHN R. CARTER, of Augusta, in the county of Bracken and State of Kentucky, have invented certain new and useful Improvements in Pitmen; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in pitmen, and more particularly to an improved detachable pitman connection, the object of the invention being to provide an improved device of this character which can be easily and quickly connected with its coöperating part and when so connected be securely held in place.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view illustrating my improvements applied to a washing-machine. Fig. 2 is an enlarged perspective view in elevation of the pitman connection. Figs. 3 and 4 are views in section of the same, and Fig. 5 is a detail view.

1 represents a crank-shaft, to which one end of the rod 2, forming the main portion of the pitman, is detachably connected, either by the hook, as shown, or by any other approved means. The short member 3 of the pitman is provided with a bearing supported on a hollow spindle 4, made integral with a bracket 6, secured to the lower rubber 7 of the washing-machine. The bracket 6 comprises two castings constructed precisely alike, each made with a downwardly-projecting arm 9 and an upright 10, extending at right angles thereto, and each upright 10 has one-half of the spindle 4 made integral therewith. Arms 9 of the respective castings are secured on opposite sides of the rubber 7 by means of bolts 11 passing through the arms 9 and rubber and secured in place by nuts. The uprights 10 of the bracket are disposed parallel and spaced the proper distance apart to receive the short member 3 of the pitman between them and are each made at their upper ends with notches 12 to permit the connection of the long member or rod 2 with the short member 3, as will be more fully hereinafter explained.

The short member 3 is provided in its end with a dovetail recess 13 to receive a dovetail enlargement 14 on the end of rod 2 when the member 3 is moved so as to aline the recess 13 therein with the notch 12 in one upright 10 and is provided on its side opposite to that having the recess 13 therein with a lug 15, which serves as a guide for the member 3 and moves into the notch 12 in one upright 10 to hold the recessed portion 13 of said member in alinement with the notch 12 of the other upright.

When the dovetailed enlargement 14 on rod 2 is inserted in the member 3 and the latter moved slightly, the end of rod 2 will be held in the recess 13 by the upright 10, and as the member 3 never assumes the position to aline its recess 13 with the notch 12 in upright 10 in the ordinary operation of the washer there is absolutely no possibility of the members 2 and 3 of the pitman becoming disconnected, and it is only when the member 3 is moved to an extraordinary or extreme position that the members of the pitman can be separated. It is, however, an extremely easy matter to disconnect the members 2 and 3 when desired, and they can be easily connected by simply raising the end of the rubber above its natural position, when the cover is thrown back and the parts can be connected or disconnected at will.

It will be seen that as my improved bracket comprises two castings made precisely alike it is impossible to incorrectly assemble the same and that it makes no difference on which side the recess 13 in member 3 is located, because both uprights 10 are precisely alike, and the member 3 will coöperate as well with either to hold the end of rod 2 in place.

The crank-shaft 1 is connected by a rod 16 with the upwardly-projecting bar 17 on top of the upper rubber 18, which latter is pivotally supported in the top of the washer, so as to rock therein and be oscillated by the movement of the crank-shaft in the opposite direction to the movement of the lower rubber.

If desired, a bolt 19 may be passed through

the spindle 4 and secured in place by a nut, so as to assemble the bracket for shipment.

Various slight changes might be resorted to in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I would have it understood that I do not wish to limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A pitman comprising two members detachably connected together end to end and means independent of the pitman, for holding said members together.

2. A pitman comprising two members, having detachable dovetail connection end to end with each other and means for preventing independent lateral movement of either member.

3. The combination with a bracket, of a pitman pivotally supported in said bracket and comprising two members removably connected and held together by the bracket.

4. The combination with a bracket having parallel members spaced apart and a spindle between said parallel members, of a pitman comprising two members one of which is pivotally mounted on the spindle and having a dovetail recess therein, a dovetail enlargement on the end of the other member of the pitman to fit into said recess and held therein by the parallel members of said bracket.

5. The combination with a pitman comprising two members having dovetail connections with each other, and a bracket to which one of said members is pivotally connected, said bracket having a notch therein to permit the insertion of the dovetail enlargement on one member of the pitman into the recess in the other.

6. The combination with a pitman comprising two members having dovetail connection with each other, and a bracket to which one of said members is pivotally connected said bracket comprising two castings secured together and having parallel members notched in opposite sides, one of said notches to aline with the dovetail recess in the pitman for the admission of the dovetail enlargement, a lug on the recessed member of the pitman to enter the notch in the other parallel member to aline the notch and recess and said uprights so constructed as to prevent the separation of the members of the pitman when the recess and notch are moved out of alinement with each other.

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

JOHN R. CARTER.

Witnesses:
GEO. F. DOWNING,
W. CLARENCE DUVALL.