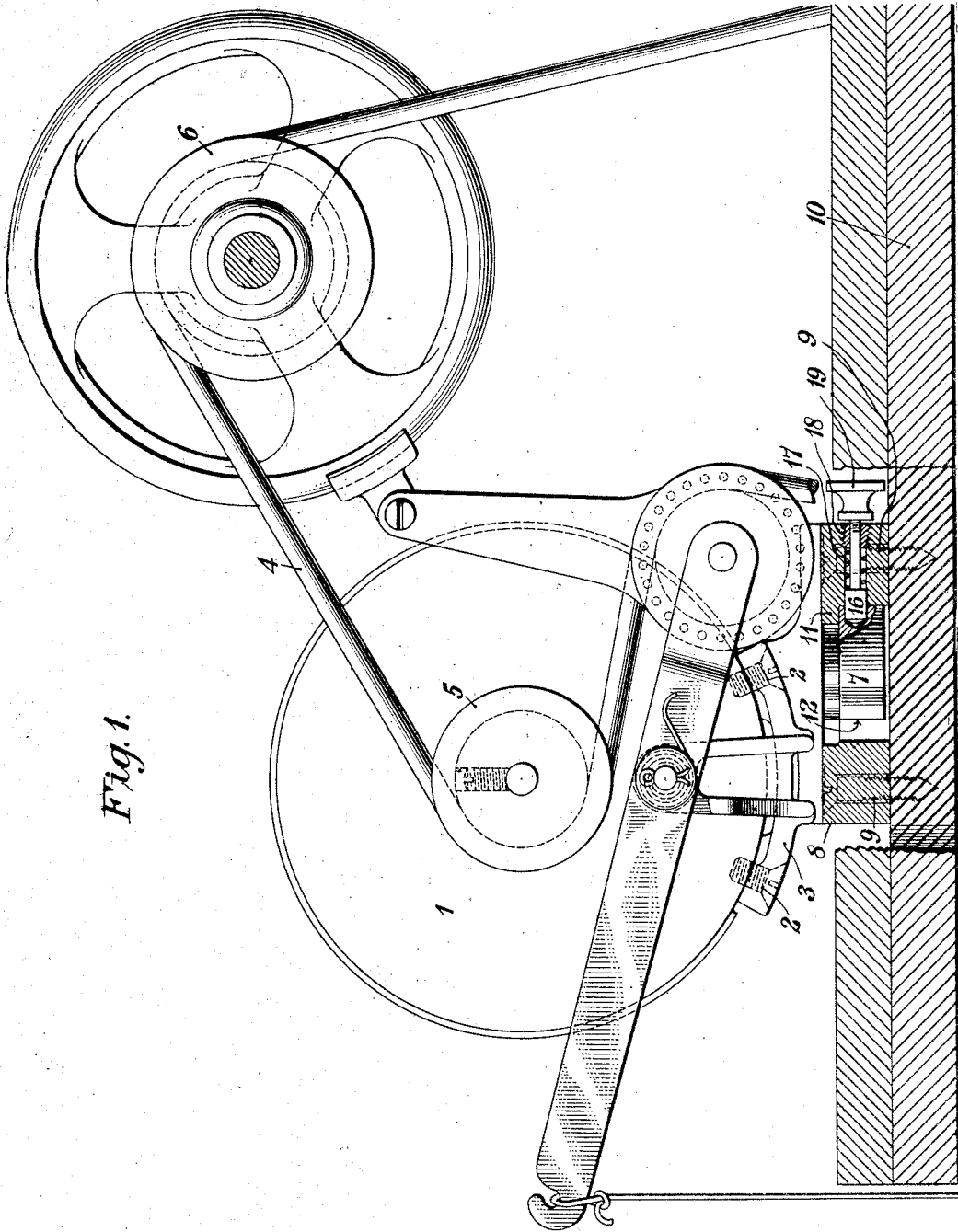


H. M. SCHEIBE.
SUPPORTING MEANS FOR ELECTRIC MOTORS.
APPLICATION FILED JAN. 10, 1908.

1,042,485.

Patented Oct. 29, 1912.

2 SHEETS—SHEET 1.



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Fig. 3.

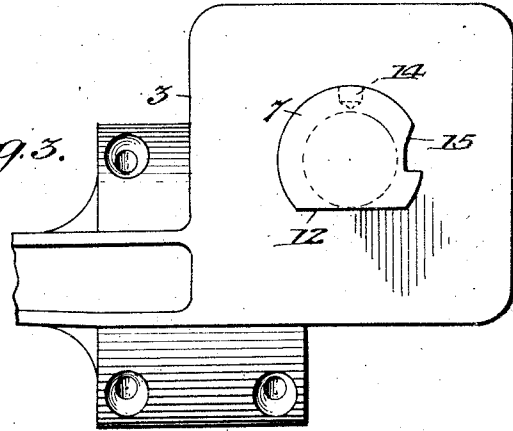


Fig. 2.

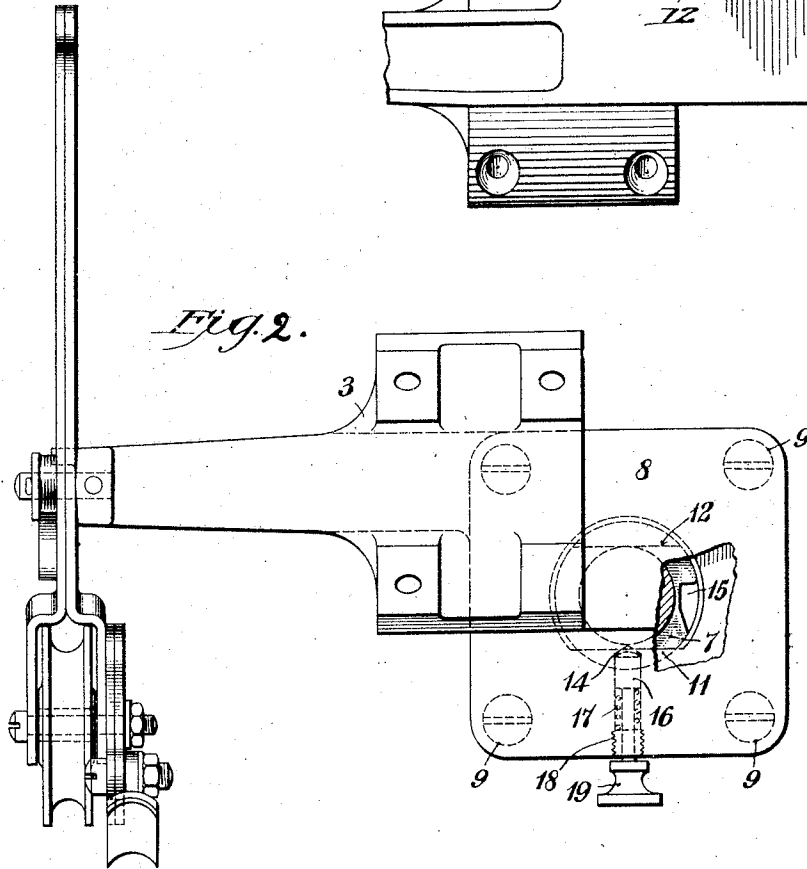
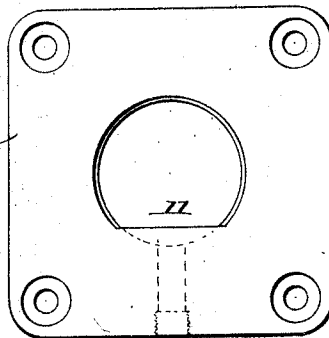


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SUPPORTING MEANS FOR ELECTRIC MOTORS.

1,042,485.

Specification of Letters Patent.

Patented Oct. 29, 1912.

Application filed January 10, 1908. Serial No. 410,249.

To all whom it may concern:

Be it known that I, HAROLD M. SCHEIBE, a citizen of the United States, and a resident of Wilksburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Supporting Means for Electric Motors, of which the following is a specification.

My invention relates to means for operatively securing two members together, and it has for its object to provide simple and inexpensive supporting means for an electric motor from which the motor may be readily detached.

When an electric motor is employed to operate a sewing machine or similar device it is very desirable that it be so supported that it may be detached from the machine when not in use and as readily attached thereto when it is desired to operate the machine, and the present invention provides supporting means for a motor especially adapted for use on a sewing machine, though not necessarily restricted to such specific application.

Figure 1 of the accompanying drawings is a view, in end elevation, of a motor, and in transverse section of supporting means therefor constructed in accordance with my invention. Fig. 2 is a top plan view of some of the parts of Fig. 1, with a portion broken away for the sake of clearness of illustration. Fig. 3 is a bottom plan view of one of the supporting members for the motor, and Fig. 4 is a top plan view of another of the supporting members for the motor.

An electric motor 1, is attached, by means of screws 2, to a supporting bracket 3 and is operatively connected to a sewing machine or other device by means of a belt 4 that passes over pulleys 5 and 6 with which the motor and the sewing machine are respectively provided. The bracket 3 is provided with a projection 7 that extends downwardly into a recess in a block 8 and the latter is secured, by means of screws 9, to the table 10 of the sewing machine. The main and lower portion of the recess in the block 8 is cylindrical in form, but the upper portion thereof is constricted by means of a barrier 11 in the form of a segment of a disk formed integral with the remainder of the block.

The main and lower portion of the projection 7 is of cylindrical form having a

flattened side at 12 and conforms, in shape, substantially to the constricted portion of the recess in the block 8. The remaining portion or neck of the projection may be cylindrical in form and of no greater radius than the shortest radius of the restricted portion of the recess in the block 8.

The larger portion of the projection 7 is provided, on the side opposite to the flattened face 12, with a recess 14 and, substantially 90° therefrom, with a recess 15 having the side nearest the recess 14 inclined outwardly away from the opposite side, a pin 16, that is operatively mounted in the block 8, being adapted to project into the recesses.

The pin 16 is forced inwardly by means of a helical compression spring 17 which is located between a shoulder on the pin and a block 18 and the latter is screwed into the aperture through which the pin 16 projects. A head 19 is secured to the outer end of the pin to provide means for manually withdrawing the same.

In attaching the supporting bracket for the motor to the block 8, the projection 7 is first applied to the opening in the block 8, with its flat side 12 adjacent to the straight edge of the segment-shaped barrier 11, and the projection is then inserted in the recess. The bracket 6 is then turned in order that the shoulder provided by the cylindrical portion of the projection 7 may engage the lower face of the segment-shaped barrier 11 and until the pin 16 is forced into the one or the other of the recesses 14 and 15.

When the motor is in position for operating the machine in connection with which it is employed, the pin 16 will project into the recess 14 in the projection 7, as indicated in Fig. 2, and prevent rotation of the bracket in either direction. In order to move the bracket from this position, it is necessary to manually remove the pin 16 from the recess 14.

When the motor is employed in connection with what is known as a "drop-head" sewing machine, it may often be desirable to lower the head of the machine into the pit and to cover the opening in the table when the machine is not in use, and, in order that the motor may be moved sufficiently to permit of applying the cover to the table of the machine without danger of the bracket 3 becoming detached from the

block 8, the recess 15 is provided in the projection 7 for the reception of the pin 16 which limits the movement of the bracket in a clockwise direction. However, when the pin 16 occupies the recess 15 the bracket may be moved in a counter-clockwise direction manually withdrawing the pin 16, since one side of the recess 15 is inclined outwardly.

10 I claim as my invention:

1. The combination with a member provided with a recess having a constricted open end, and a pin operatively mounted in the said member and adapted to project into said recess, of an adjustable member adapted to fit into the said recess and comprising a main portion conforming substantially in shape to the constricted open end, and a neck of no greater radius than the shortest radius of said open end, the main portion of the said adjustable member being provided with recesses for the reception of the said pin.

2. The combination with a member provided with a recess having a constricted open end, of an adjustable member adapted to fit into the said recess and comprising a main portion conforming substantially in shape to the constricted opening and a neck of no greater radius than the shorter radius of the constricted opening, means for preventing rotative movement of the said adjustable member in either direction from one predetermined position, and means for permitting rotative movement thereof in one direction only from another predetermined position, when seated in said recess.

3. The combination with a member provided with a recess having a barrier across

a portion of its open end, of an adjustable member having a projection which is adapted to fit into the said recess and comprises a main portion having substantially the shape of the open end of said recess, and a cylindrical neck of no greater radius than the shortest distance from the center of the recess to the edge of the barrier, means for preventing relative rotative movement of the said members in either direction from one predetermined position, and means for permitting such movement in one direction only from another predetermined position, when seated in said recess.

4. The combination with a member having a recess the main portion of which is cylindrical and the remaining portion of which is constricted by a segmental barrier at one side, of another member having a projection the main portion of which conforms in shape to the constricted portion of the said recess and the remaining portion of which is of no greater radius than the shortest radius of the constricted portion of the said recess, means for preventing relative rotative movement of the said members in either direction from one predetermined position, means for permitting such movement and in one direction only from another predetermined position, when seated in said recess.

In testimony whereof, I have hereunto subscribed my name this 28th day of Dec., 1907.

HAROLD M. SCHEIBE.

Witnesses:

F. D. HALLOCK,
BIRNEY HINES.