

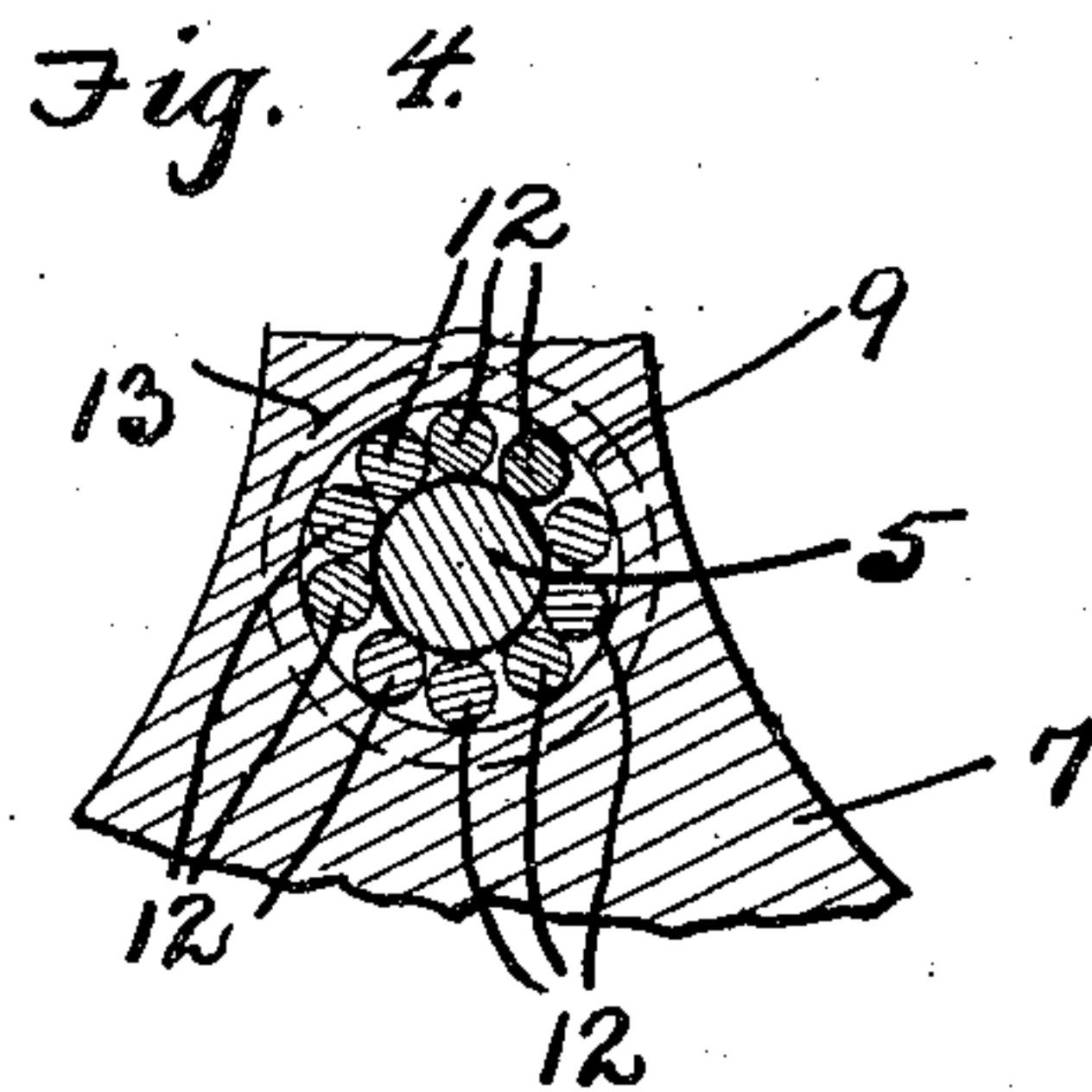
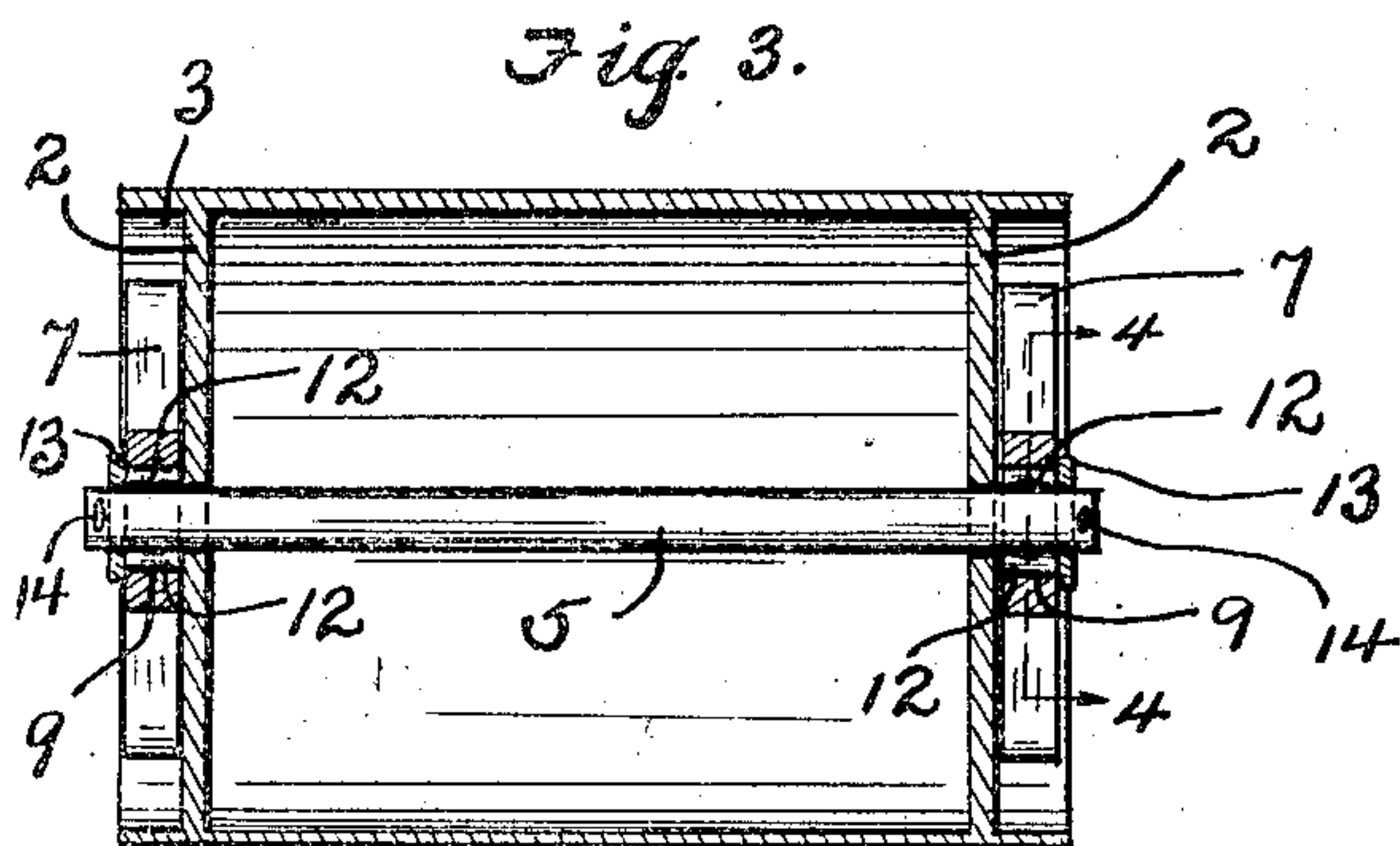
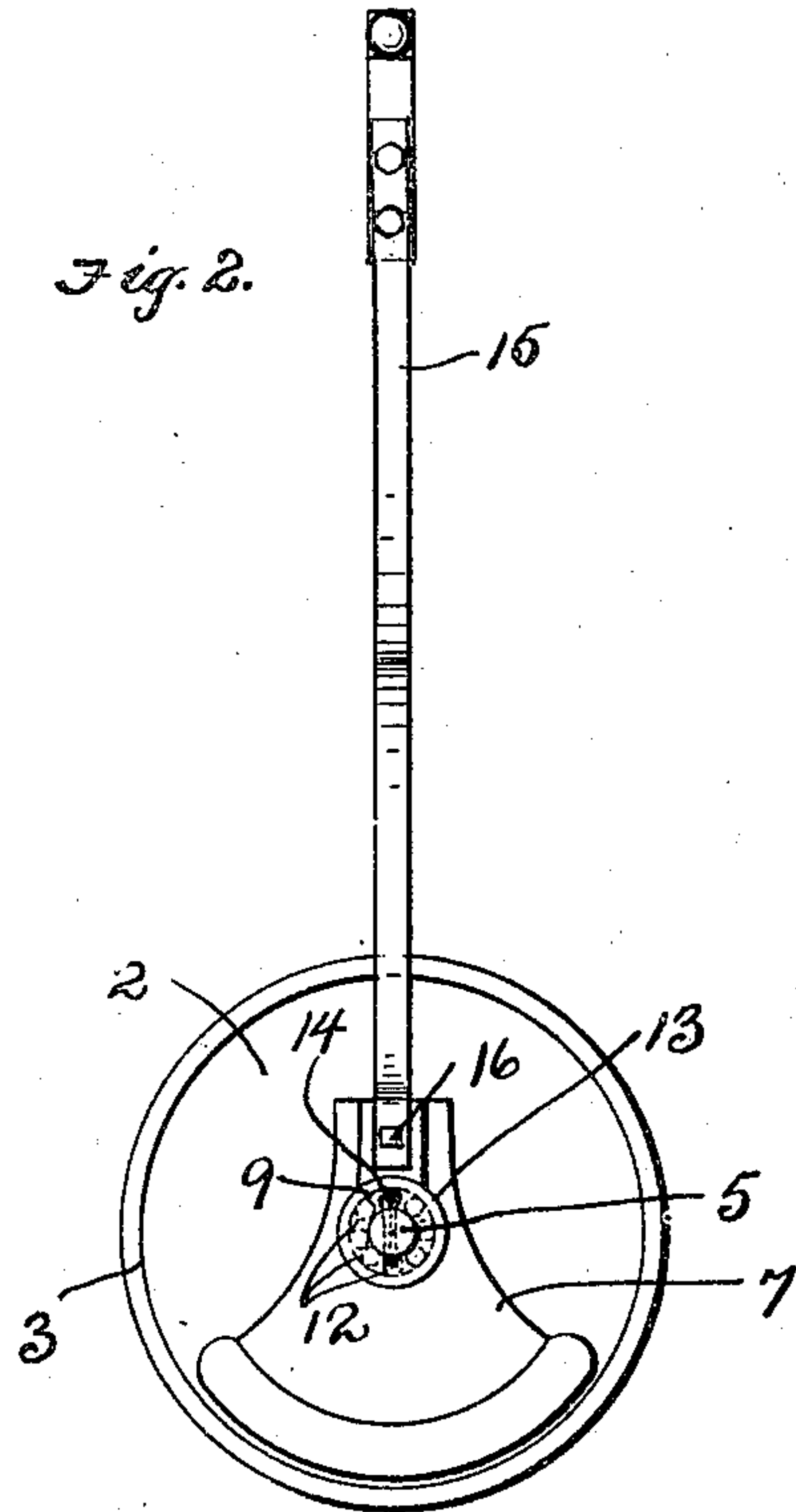
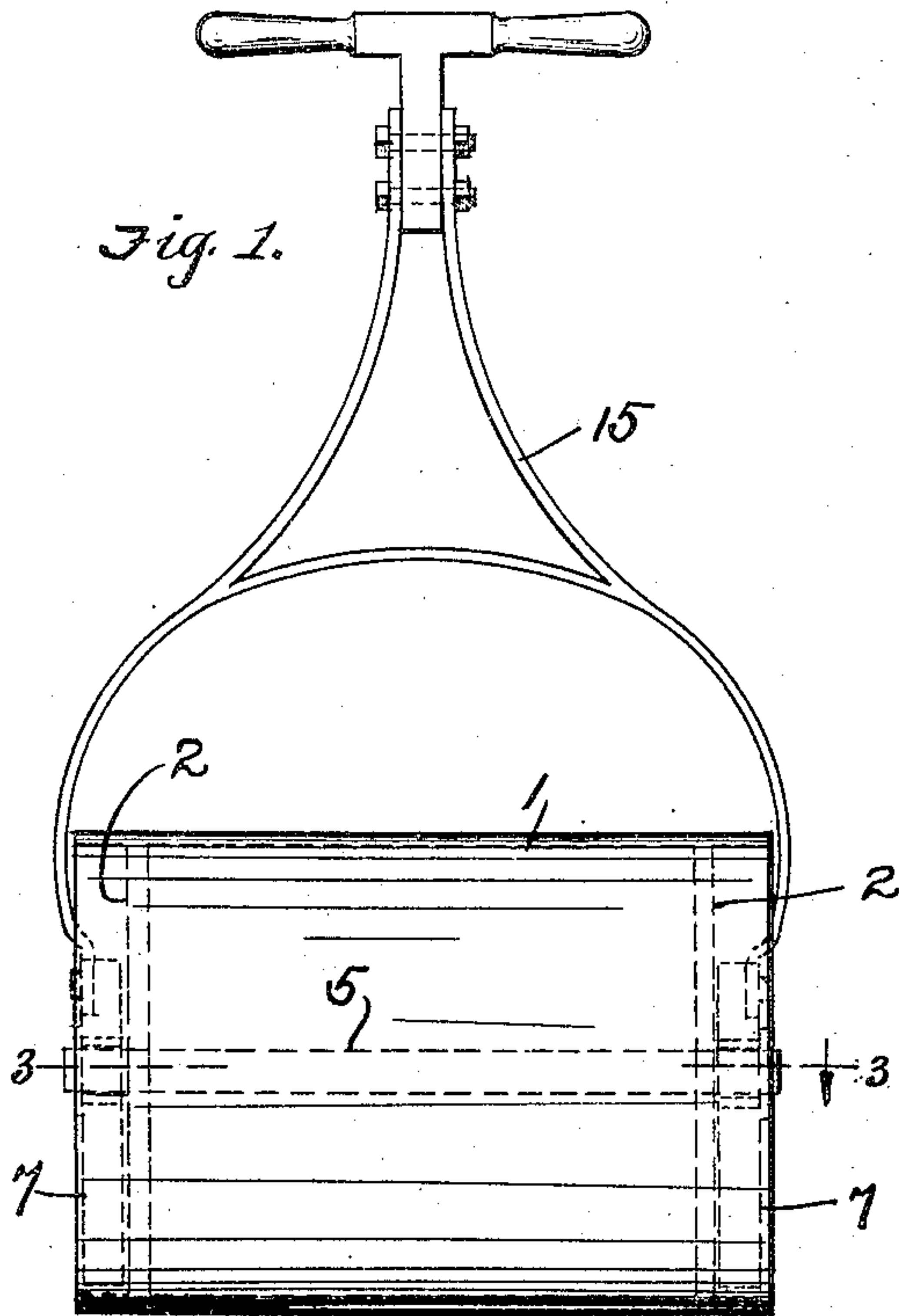
W. J. DUNHAM.

LAND ROLLER.

APPLICATION FILED MAY 25, 1909.

942,892.

Patented Dec. 14, 1909.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILEY J. DUNHAM, OF BEREA, OHIO.

LAND-ROLLER.

942,892.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed May 25, 1909. Serial No. 498,255.

To all whom it may concern:

Be it known that I, WILEY J. DUNHAM, a citizen of the United States of America, residing at Berea, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Land-Rollers; and I 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 pertains to make and use the same.

This invention relates to new and useful improvements in land-rollers.

One object of this invention is to provide a roller which will be durable, which can be easily operated and which will have means for counterbalancing the handle so that the handle will assume a vertical position when not in use and therefore the roller can be stored in a small space.

A further object of my invention is to provide a construction wherein the mountings for the handle, and the counterbalancing devices will be arranged within the roller cylinder thereby enabling the roller to be operated close to obstructions such as fences or trees, without danger of the mounting for the handle coming in contact therewith.

My invention, therefore, consists in the features of construction and combination of parts as described in the specification, pointed out in the claims and illustrated in the accompanying drawings.

In the accompanying drawings Figure 1 is a front elevation of my improved roller. Fig. 2 is an end elevation of the same. Fig. 3 is a section on line 3—3, Fig. 1. Fig. 4 is a section on line 4—4, Fig. 3.

Again referring to the drawings, 1 represents the roller proper which, as shown, consists of a single cylindrical member, but may be built up in the usual manner of a number of cylindrical sections, if desired. Within the roller at a short distance from each end is arranged a head 2 so that there is a recess or space 3 at each end of the roller outside of the head. A shaft 5 is rigidly supported centrally in the heads 2 and projects a short distance beyond each head and forms the axle of the roller.

At the ends of the roller, in the recesses 3 outside of the heads 2, are arranged sector-shaped plates 7. In each plate 7 a short distance below the narrow end thereof is formed a circular opening 9 for the end of

the axle which is greater in diameter than the axle and in the said opening 9 around the end of the axle are arranged a series of roller bearings 12. Washers 13 are secured on the ends of the axle 5 outside of the plates 7 so as to hold the roller bearings 12 against displacement and the said washers are preferably held on the ends of the axle by means of cotter pins 14.

The handle 15 is forked in the usual manner so as to straddle the roller and the forked ends thereof are secured to the narrower ends of the plates 7 by means of bolts 16. The plates 7 are weighted at their widest ends sufficiently to counterbalance the weight of the handle and the handle is therefore held in an approximately vertical position. When the roller is in use the handle can not fall on the ground and when the roller is not in use, as the handle is normally held in a vertical position, the roller can be stored in a comparatively small space.

The provision of the plates 7 with the roller bearings greatly facilitates the operating of the roller while the arrangement of the said plates outside of the heads of the roller, but within the recesses at the ends thereof, renders them readily accessible while they offer no impediment to the operation of the roller.

What I claim is,—

1. In a device of the character indicated, a roller having heads arranged at the ends and a distance in from the ends so as to leave recesses at the ends of the roller outside of said heads, an axle mounted centrally in said heads and extending beyond said heads, plates mounted on the ends of said axle within said recesses and a handle secured to said plates.

2. In a device of the character indicated, a roller having heads arranged at the ends and a distance in from the ends so as to leave recesses at the ends of the roller outside of said heads, an axle mounted centrally in said heads and extending beyond said heads, plates mounted on the ends of said axle within said recesses, a handle secured to said plates and means for counterbalancing said plates so as to hold said handle in an approximately vertical position.

3. In a device of the character indicated, a roller having heads arranged at the ends and a distance in from the ends so as to leave recesses at the ends of the roller outside of the heads, plates arranged in said

recesses and provided with circular openings
for receiving the ends of the axle, said
openings being larger in diameter than the
said axle, roller bearings arranged in said
5 openings around the ends of said axle, wash-
ers arranged on the ends of said axle outside
of said plates so as to hold said roller bear-
ings against displacement and a handle se-
cured to said plates.
10 4. In a device of the character indicated,
a roller having heads arranged at the ends
and a distance in from the ends so as to
leave recesses at the ends of the roller out-
side of said heads, plates arranged in said
15 recesses and provided with circular open-
ings for receiving the ends of the axle, said
openings being larger in diameter than the

said axle, roller bearings arranged in said
openings around the ends of the axle, wash-
ers secured on said axle outside of said 20
plates so as to hold said roller bearings
against displacement and a handle secured
to said plates at a point such that the said
plates will counterbalance the said handle,
substantially as described and for the pur- 25
pose set forth.

In testimony whereof, I sign the forego-
ing specification, in the presence of two wit-
nesses.

WILEY J. DUNHAM.

Witnesses:

C. A. EHRLER,
V. A. MERRITT.