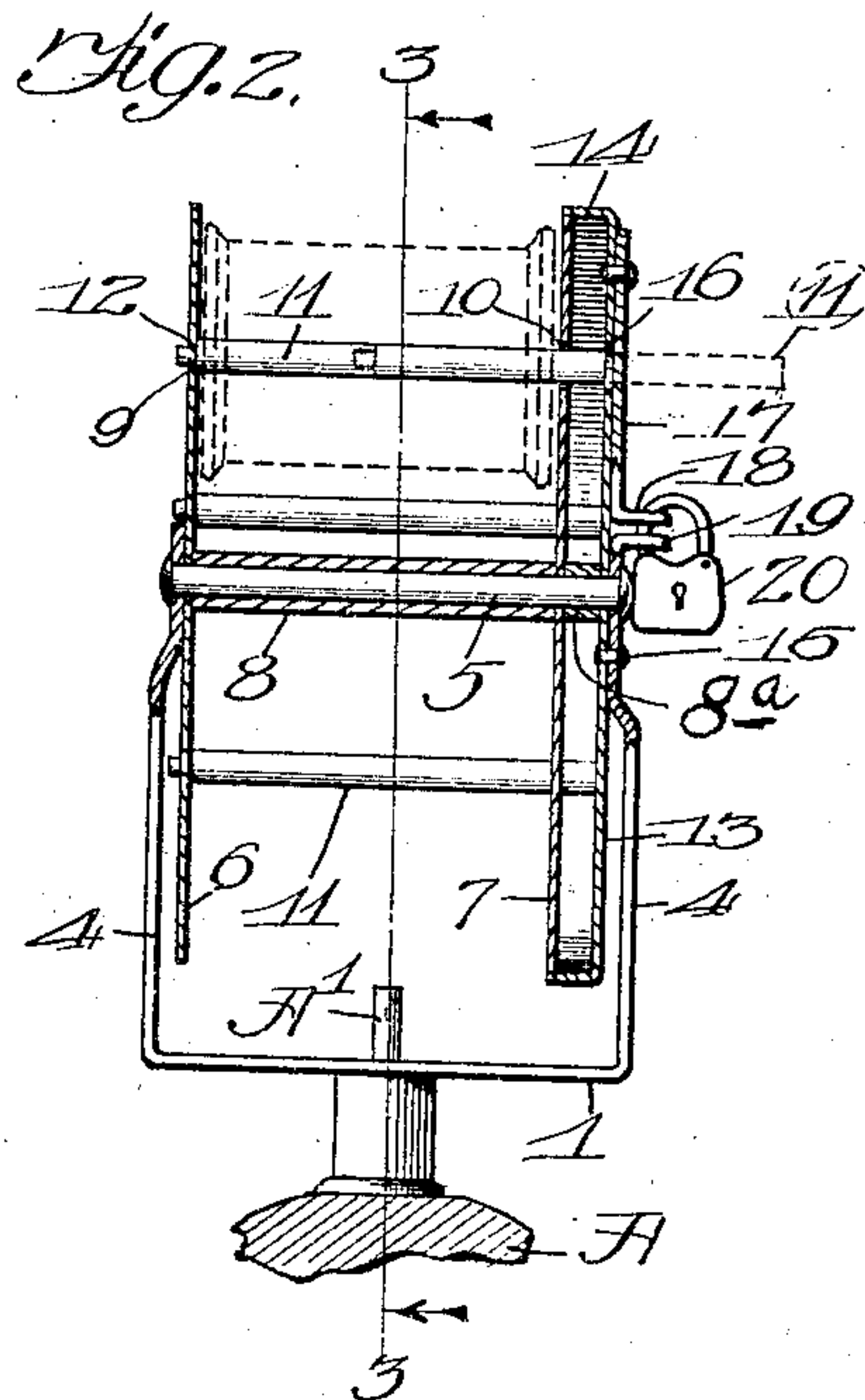
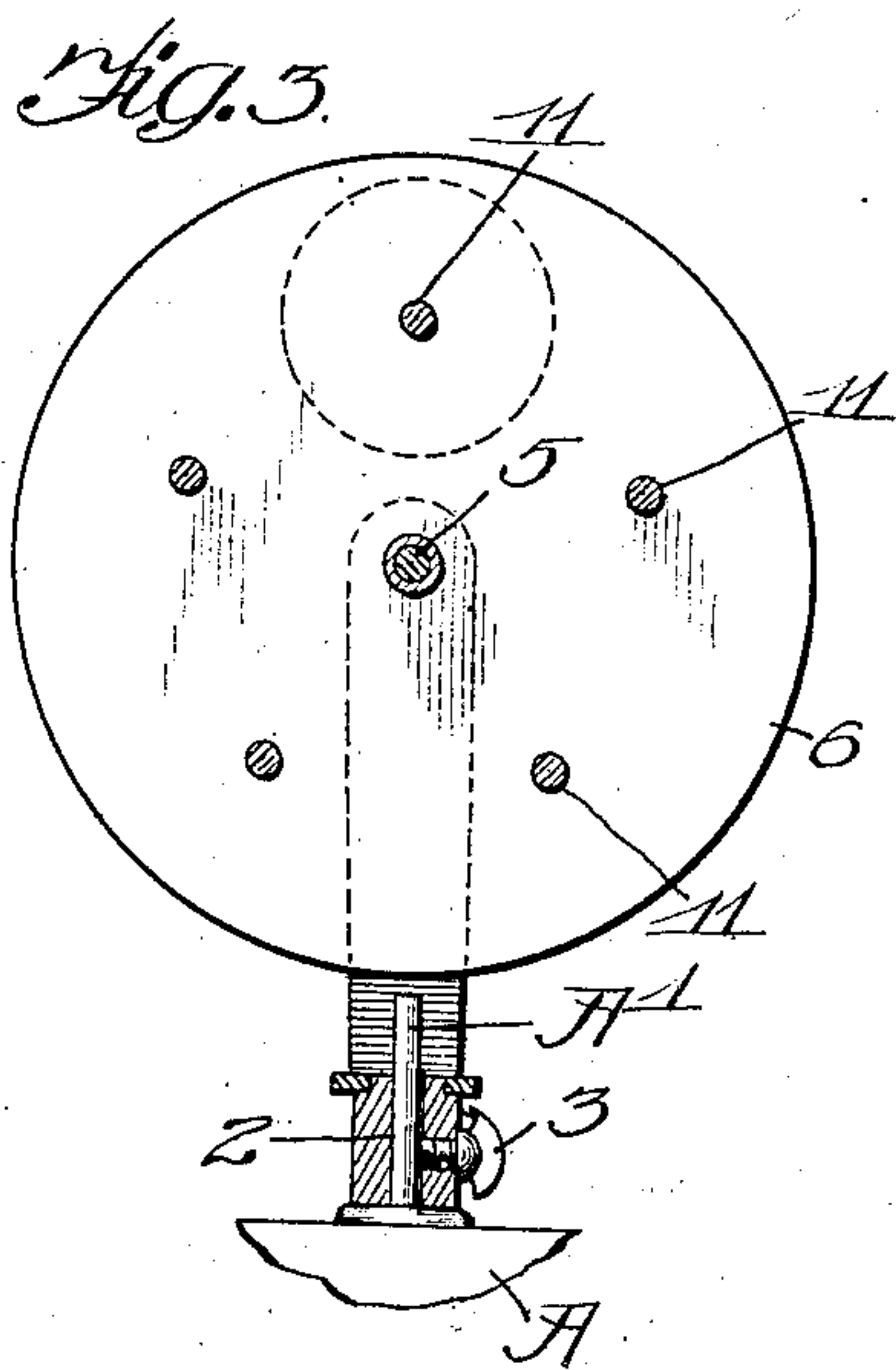
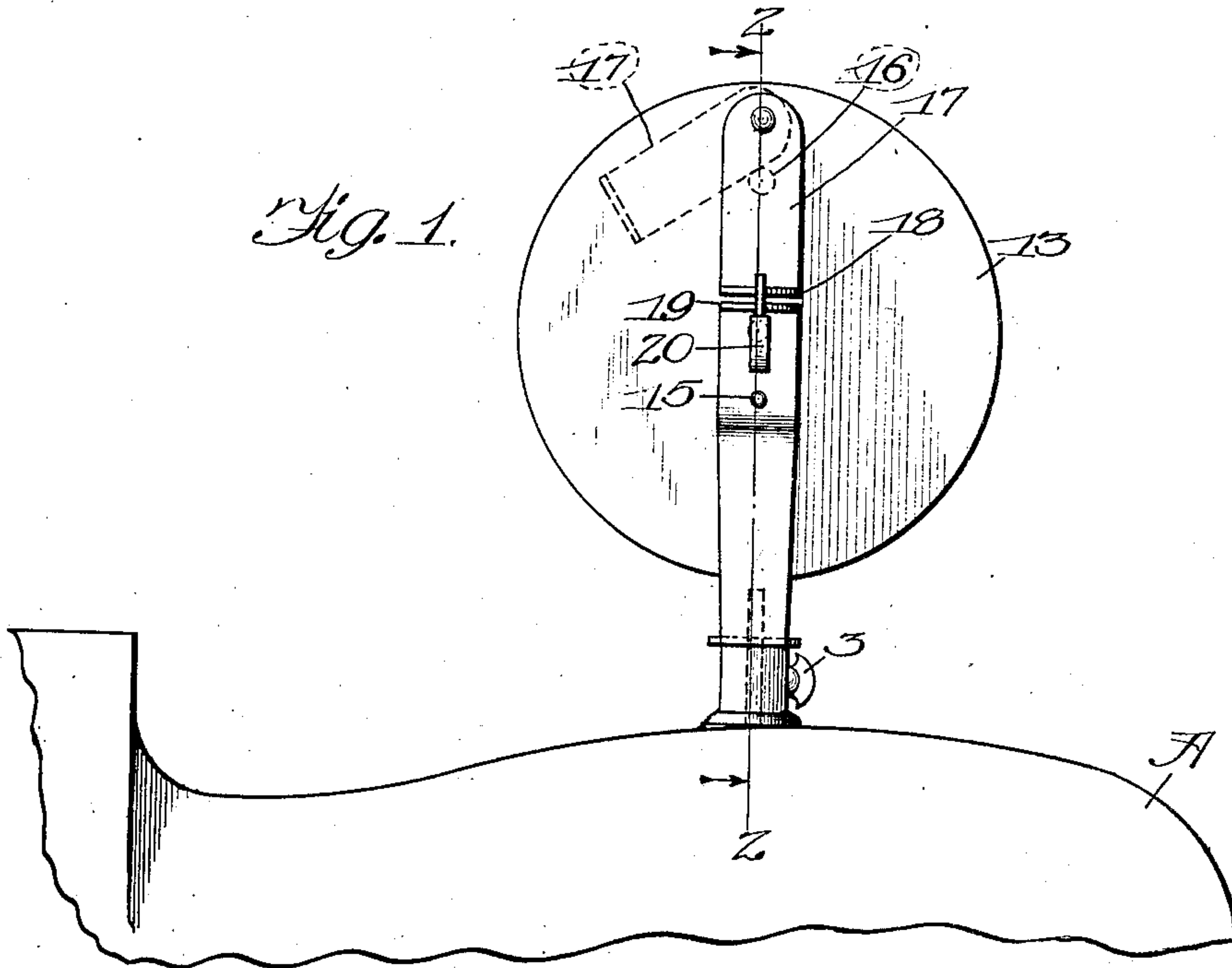


S. WERTHEIMER.
SPOOL HOLDER.
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912,341.

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Witnesses:

Robert A. Weir
Jno. H. Meloy Jr.

Inventor:

Samuel Wertheimer.

By Luther L. Miller
Atty

UNITED STATES PATENT OFFICE.

SAMUEL WERTHEIMER, OF CHICAGO, ILLINOIS.

SPOOL-HOLDER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SAMUEL WERTHEIMER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Spool-Holders, of which the following is a specification.

In clothing factories, several different sizes, colors or qualities of thread are often needed by each operative, and the spools of thread not in actual use are either kept in a drawer of the sewing machine or some like place, or in a device adapted to hold a plurality of spools of thread in operative position upon the machine.

One of the objects of this invention is to provide improved means for locking such a spool-holding device, in order to prevent the unauthorized removal of a spool of thread therefrom.

The invention also relates to the other improvements in spool holders hereinafter set forth.

In the accompanying drawings, Figure 1 is a side elevation of a spool holder embodying the features of my invention, showing the device in position upon a sewing machine. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a section on line 3 3 of Fig. 2.

That embodiment of my invention which I have chosen for illustration herein comprises a frame or support 1 having an opening 2 therein adapted to receive the spool-standard A' upon the sewing-machine frame A. A set screw 3 extending through the base of the frame and engaging the spool-standard holds said frame from displacement. In the upper ends of the arms 4 of the frame 1 is mounted a shaft 5.

The spool-supporting means comprises, in this instance, a creel consisting of two disks 6 and 7 rigidly attached to the ends of a sleeve 8 which is rotatably mounted upon the shaft 5. In the disks 6 and 7 is formed a plurality of openings 9 and 10 to receive pins 11, upon which spools of thread may be rotatably supported. In this instance the device is arranged to hold five spools. One end of each of the pins 11 is reduced in diameter to form a stop shoulder 12 on said pin. The openings 9 are only large enough to receive the reduced ends of the pins 11, the shoulders 12 limiting the longitudinal movement of the pins in one direction.

The means for preventing withdrawal of the pins 11 through the openings 10 consists,

in the embodiment herein shown, of a disk 13 having a peripheral flange 14 thereon which overlies the edge of the disk 7. Between the disks 7 and 13 is a spacing sleeve 8^a. Said disk 13 is mounted upon the shaft 5 and is fixed to the frame 1 by any suitable means, such as a rivet 15. The disk 13 has an opening 16 therein at the same distance from the shaft 5 as the openings 9 and 10. A keeper 17 is pivoted upon the outer side of the disk 13, said keeper having an outwardly-extending perforated ear 18 at its lower end. A similar ear 19 is formed upon the upper end of one of the arms 4 of the frame 1. The ears 18 and 19 are intended to receive the shackle of a padlock 20 for locking the keeper 17 against movement to expose the opening 16.

In use, the device is placed upon the spool-standard of a sewing machine, with the side plates 6 and 7 of the creel extending longitudinally of the machine, and is made rigid with said standard by tightening up the set screw 3. When it is desired to place a spool upon one of the pins 11, the creel is rotated to bring the pin into register with the opening 16. The lock 20 having been opened, the keeper 17 is swung aside, and the pin 11 slid out through the opening 16. By pushing upon the projecting rear end of the pin, the latter may be moved through the disk 13 far enough to permit of grasping said pin with the fingers. A spool of thread is then placed between the side plates 6 and 7 of the creel, with the hole in said spool in register with the openings 9, 10 and 16, and the pin 11 returned to its place. The opening 16 is then closed by the keeper 17 and the latter locked in place. The process of removing a spool involves a reversal of the order of the steps just described.

I have herein described one embodiment of my invention in detail, without intending thereby, however, to limit myself to the exact construction shown and described, or to the uses herein set forth.

I claim as my invention:

1. In a spool holder, in combination, a frame; a creel mounted in said frame, the spool-supporting pins of said creel being withdrawable from said creel; and a disk adjacent one of the sides of said creel, said disk having an opening therein adapted to register with the pins in said creel.

2. In a spool-holder, in combination, a

frame; a creel mounted in said frame, the
spool-supporting pins of said creel being
withdrawable from said creel; a disk adja-
cent one of the sides of said creel, said disk
5 having an opening therein adapted to regis-
ter with the pins in said creel; and means for
closing the opening in said disk.

3. In a spool-holder, in combination, a
frame; a creel mounted in said frame, the
10 spool-supporting pins of said creel being
withdrawable from said creel; a disk adja-
cent one of the sides of said creel, said disk
having an opening therein adapted to regis-
ter with the pins in said creel; means for
15 closing the opening in said disk; and means
for locking said closing means.

4. In a spool holder, in combination, a
frame; a creel mounted in said frame and
comprising side plates and longitudinally
20 withdrawable spool-supporting pins; a disk
adjacent one of the side plates of said creel;
and a flange on said disk overlying said
plate, said disk having an opening therein

adapted to register with the pins in said
creel; and means for closing the opening in 25
said disk.

5. In a spool holder, in combination, a
supporting frame; means for preventing ro-
tation of said frame; a shaft fixed in said
frame; two disks; a sleeve rotatable upon 30
said shaft, said disks being fixed to said
sleeve; a plurality of pins, the ends of said
pins lying in openings in said disks, said pins
being withdrawable from said disks; an an-
nular plate adjacent one of said disks; a pe- 35
ripheral flange on said annular plate over-
lying one of said disks, said plate having an
opening therein adapted to register with the
openings in said disks; means for closing
said opening in said plate; and means for 40
locking said closing means in place over said
opening.

SAMUEL WERTHEIMER.

Witnesses:

LUTHER L. MILLER,

ERNEST U. SCHROETER.