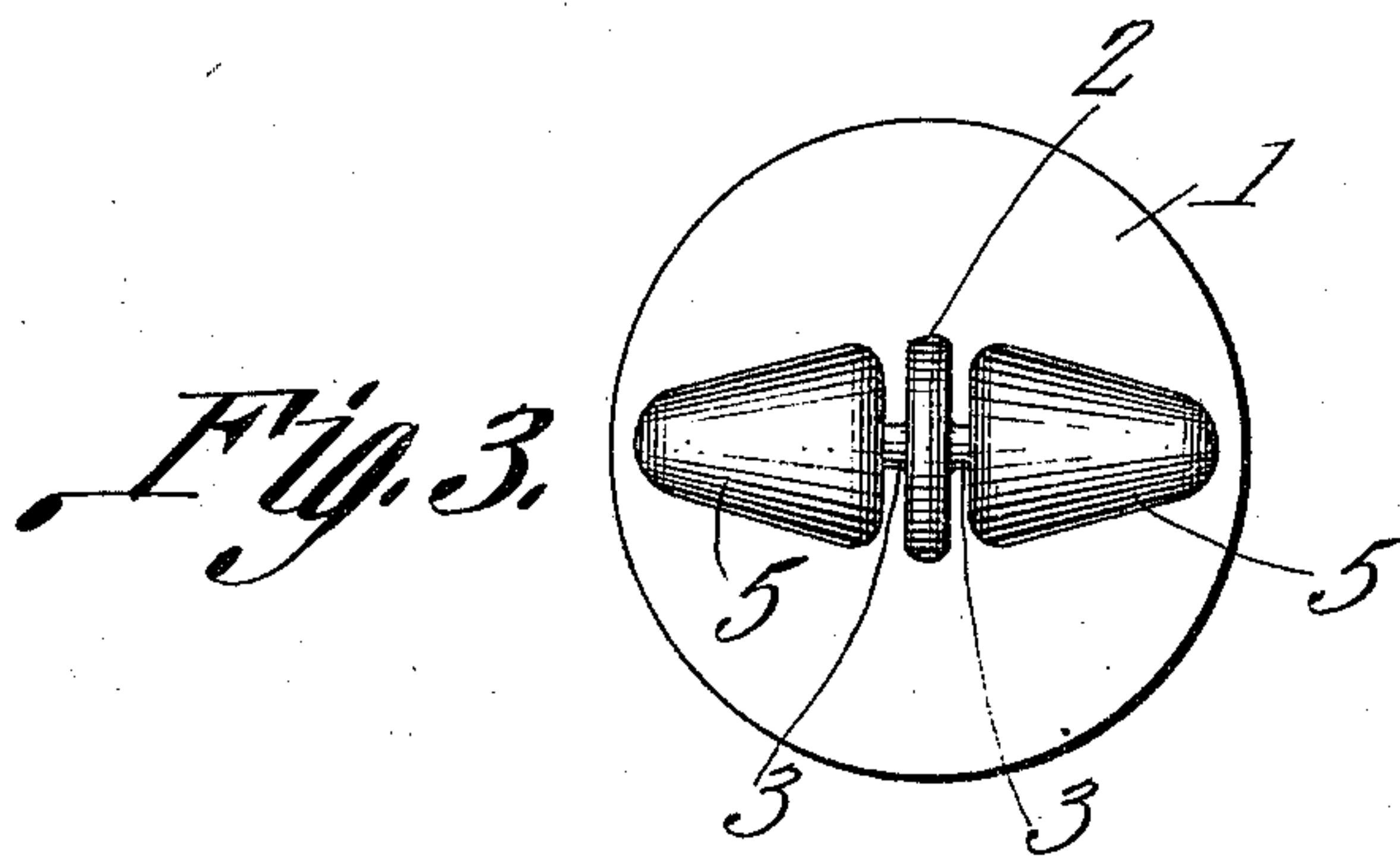
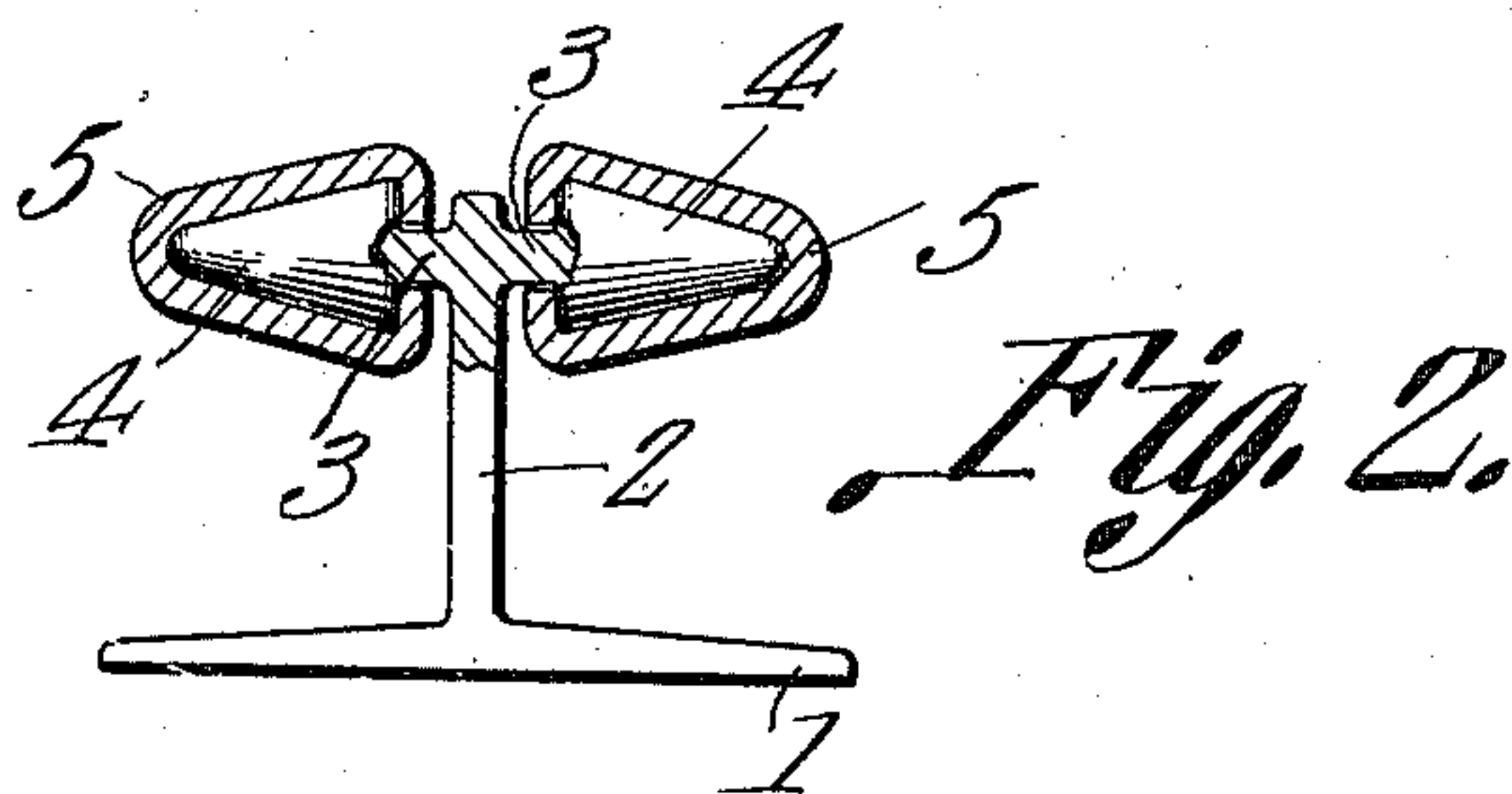
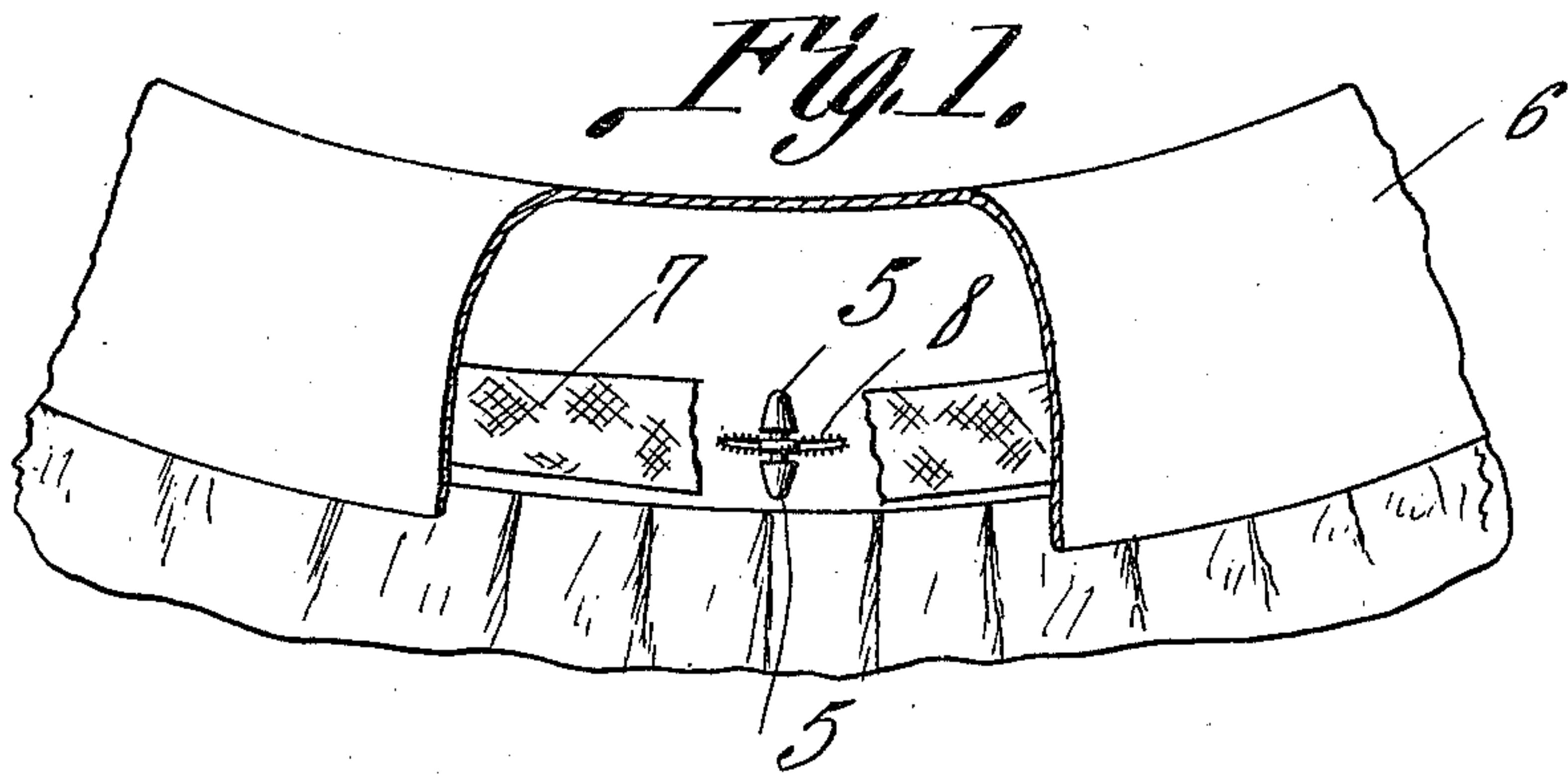


W. M. NOBLE.
COLLAR BUTTON.
APPLICATION FILED JUNE 9, 1910.

989,632.

Patented Apr. 18, 1911.



Witnesses

J. P. Dornley
Mason B. Lawton

William M. Noble,
Inventor
by *C. A. Snow & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM M. NOBLE, OF EUREKA, CALIFORNIA, ASSIGNOR TO MINNIE H. NOBLE, OF EUREKA, CALIFORNIA.

COLLAR-BUTTON.

989,632.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed June 9, 1910. Serial No. 565,988.

To all whom it may concern:

Be it known that I, WILLIAM M. NOBLE, a citizen of the United States, residing at Eureka, in the county of Humboldt and State of California, have invented a new and useful Collar-Button, of which the following is a specification.

It is the object of this invention to provide a collar button having at one end anti-friction means whereby a necktie may readily be slid longitudinally along the surface of the collar in which the collar button is mounted.

Another object of the invention is to provide a collar button having anti-friction means to receive a necktie, the collar button being so constructed that the axis of rotation of the said anti-friction means is held at right angles to the direction in which the necktie is drawn.

Another object of the invention is to provide a collar button having anti-friction means thereon so constructed that the necktie will be held upon said means.

The drawings show typical embodiments merely, and it is to be understood that changes, properly falling within the scope of what is claimed, may be made without departing from the spirit of the invention.

In the accompanying drawings, Figure 1 is a perspective showing a portion of a collar and a necktie mounted thereon, the collar button of my invention being positioned in the collar; Fig. 2 shows the invention in edge elevation parts being broken away and sectioned; and Fig. 3 is a top plan.

The collar button herein disclosed comprises a head 1, from which rises a shank 2, provided adjacent its free end with oppositely disposed, axially aligned arms 3. The shank 2, as seen to best advantage in Fig. 2 is of unequal transverse dimensions, and the common axis of the arms 3 is disposed substantially normal to the longer dimension of the shank 2.

The arms 3 terminate at their free ends in enlargements 4. These enlargements 4 may be of any form; in the present instance, they are frusto-conical in outline, and disposed base to base. Rotatably mounted upon the heads 4 are rollers 5. These rollers 5 like the heads 4 may be frusto-conical in outline, and obviously are disposed base to base, as is the case with the heads 4. The heads 4, engaging the rollers 5 serve to re-

tain them in place, for rotation upon the arms 3.

In practical operation, the roller carrying end of the device is thrust through the button hole 8 in the collar 6. By reason of the fact that the shank 2 is of unequal dimensions, the shank will be held against turning about in the collar in the button hole 8, the axis of rotation of the rollers 5 being thus held substantially at right angles to the direction in which the tie 7 is drawn. Thus, the rollers 5 will at all times be effective to support the tie anti-frictionally as it is drawn between the constituent walls of the collar, a collar of double wall construction being shown in the drawings.

Although not obligatory, it is desirable that the rollers 5 be frusto-conical in outline and disposed base to base. By reason of this construction, the tie will be pushed outwardly, along its longitudinal center, and thus be retained in place upon the rollers 5, as the tie is drawn lengthwise, between the constituent walls of the collar.

From the foregoing it will be seen that I have provided a collar button adapted to be retained in a fixed position in a collar, the collar button maintaining an anti-friction element in a position substantially at right angles to the line along which the necktie is drawn, the construction of the device, moreover, being such that, as the necktie is drawn to and fro, the necktie will not readily slip off of the anti-friction means which are carried by the button.

What is claimed as new is:—

1. A collar button embodying a shank, and a transverse roller rotatably connected with the shank, the shank being of unequal transverse dimensions, whereby, when the shank is inserted into the button hole, the axis of rotation of the roller will be maintained substantially at right angles to the line in which the necktie is drawn along the collar.

2. A collar button having a shank of unequal transverse dimensions; arms oppositely projecting from the shank substantially at right angles to the longer dimension of the shank; and rollers rotatably mounted upon the arms.

3. A collar button having a shank of unequal transverse dimensions; arms oppositely projecting from the shank substantially at right angles to the longer dimension

sion thereof; the arms being provided with terminal enlargements; and rollers rotatable upon the arms and held thereon by the enlargements.

5 4. A collar button embodying a shank and frusto-conical rollers disposed base to base upon the shank, and having a common axis of rotation, the shank being of unequal transverse dimensions, whereby, when the
10 shank is inserted into the button hole, the axis of rotation of the rollers will be maintained substantially at right angles to the line in which the necktie is drawn along the collar.

15 5. A collar button having a shank of un-

equal transverse dimensions; arms oppositely projecting from the shank substantially at right angles to the longer dimension of the shank, the arms being provided with frusto-conical enlargements disposed base to base; 20 and frusto-conical rollers rotatable upon the enlargements and retained thereby upon the arms.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses. 25

WILLIAM M. NOBLE.

Witnesses:

B. N. BULLOCK,

MINNIE HACKETT NOBLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
