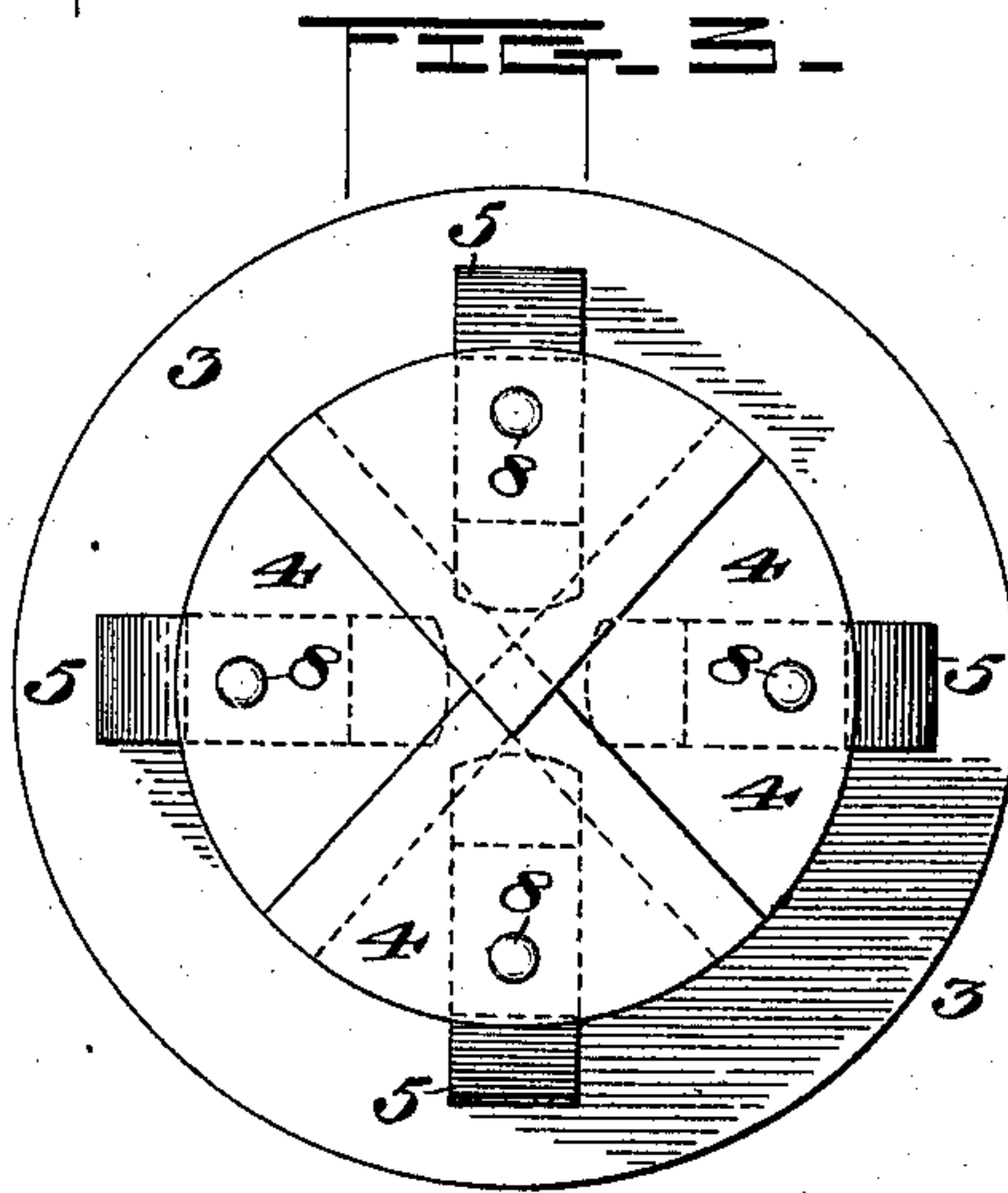
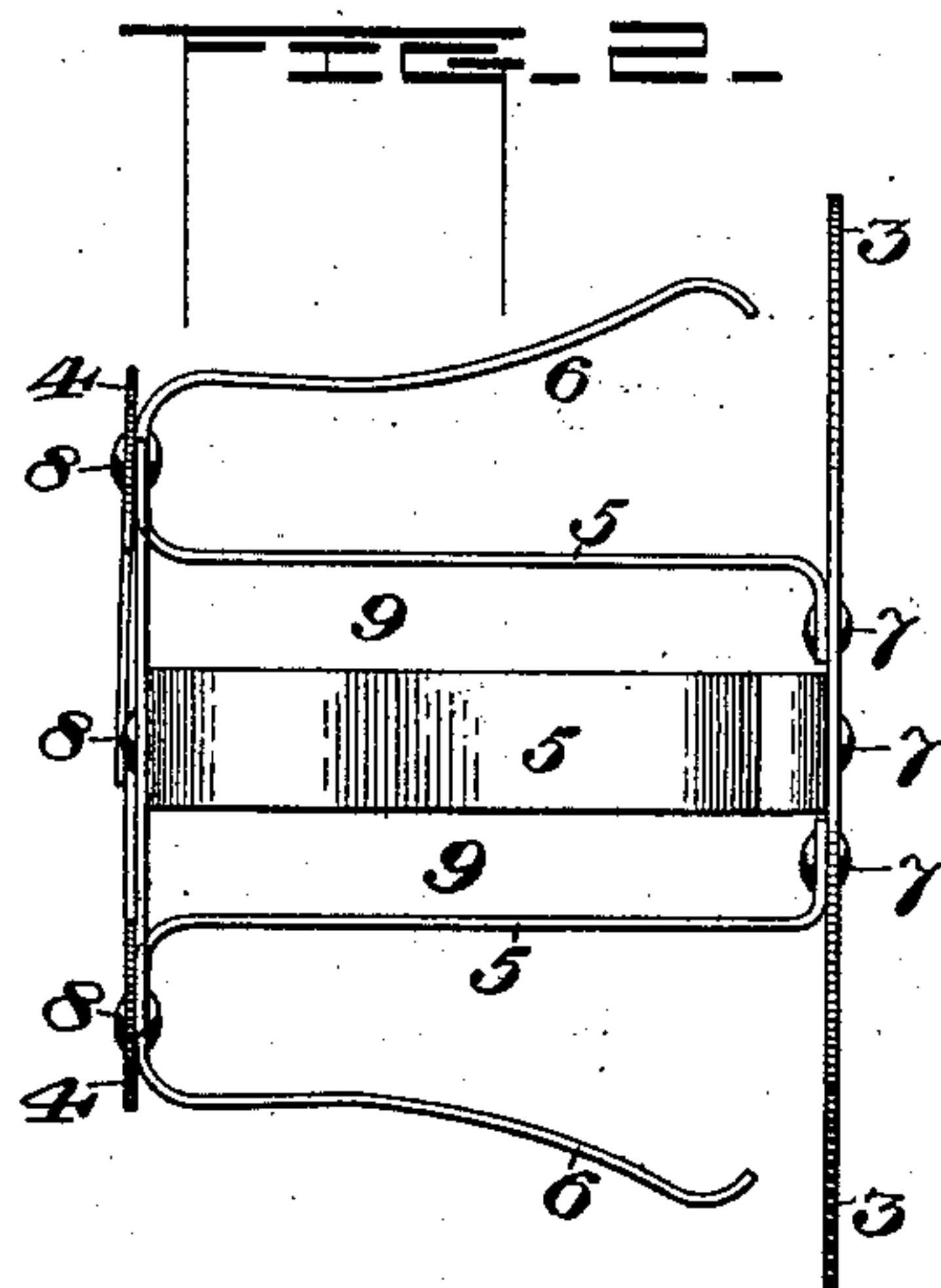
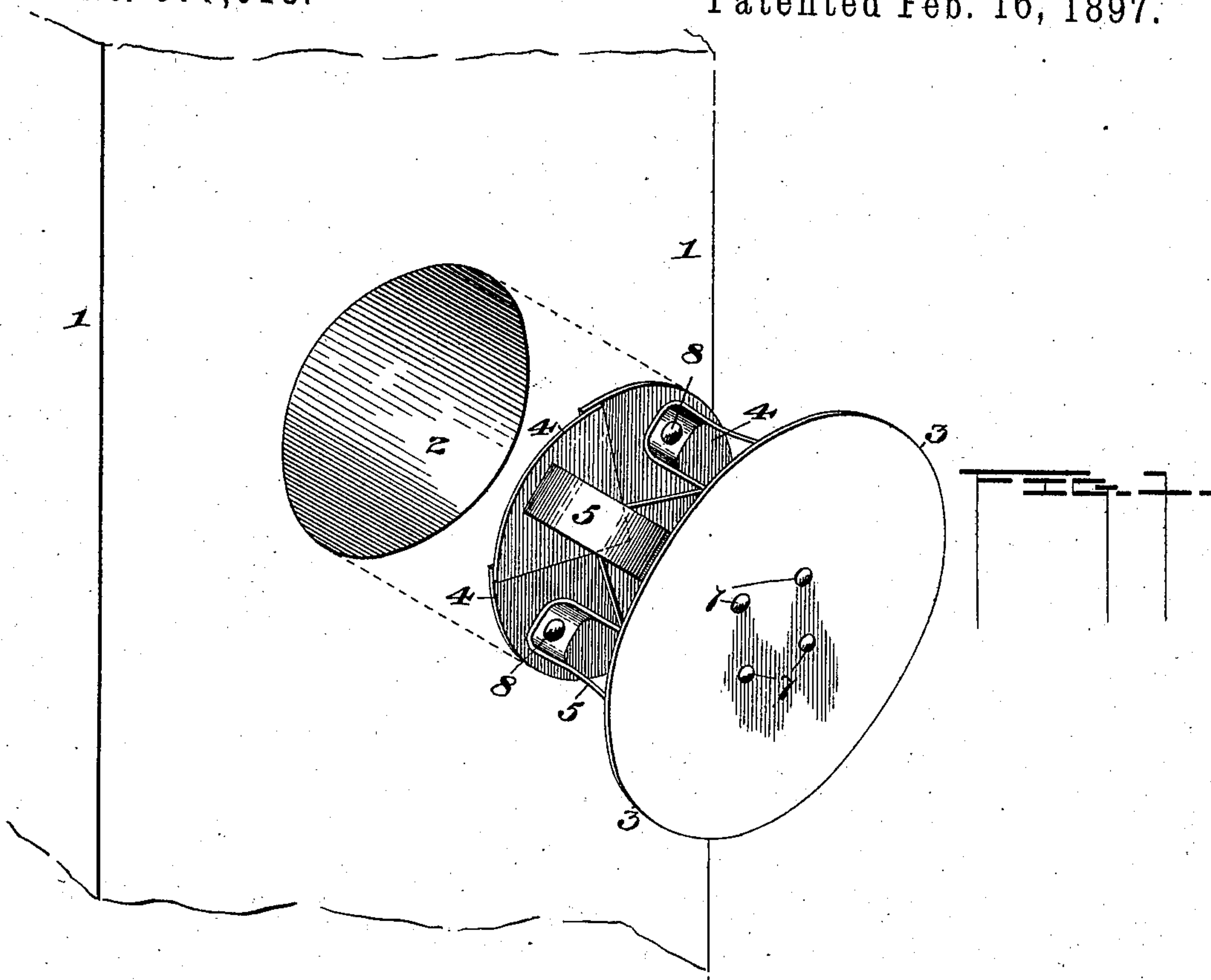


(No Model.)

R. W. DRINKER.
AUTOMATIC FIREPROOF FLUE STOPPER.

No. 577,013.

Patented Feb. 16, 1897.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT W. DRINKER, OF KILBOURN, WISCONSIN.

AUTOMATIC FIREPROOF FLUE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 577,013, dated February 16, 1897.

Application filed June 25, 1896. Serial No. 596,919. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. DRINKER, a citizen of the United States, residing at Kilbourn, in the county of Columbia and State of Wisconsin, have invented certain new and useful Improvements in Automatic Fireproof Flue-Stoppers; and I hereby declare the following to be a full, clear, and exact description of my invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to automatic fireproof flue-protectors for closing pipe-holes in chimneys when the pipes are removed and to guard against fire, smoke, and soot from such flue-holes.

My device is so constructed as to accommodate automatically said holes of different sizes, having an inner and outer guard or disk forming an air-chamber between, so that if a chimney-flue were to take fire from the soot and burn out, as chimneys often do, no fire or heat or smoke could escape into the room through the pipe-holes when closed with my device.

I attain the objects of my invention by means of the improved construction and arrangement of the several parts, which are fully described, and pointed out in the claim, reference being had to the accompanying drawings, which form a part of the specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure I is a perspective view of my invention, showing also a sectional elevation of a chimney and an aperture or pipe-hole therein to be closed. Fig. II is a side elevation of same. Fig. III is a plan view of same.

1 1 is a section of a chimney, and 2 is an aperture or pipe-hole in side of chimney with pipe removed.

3 3 is the outer guard or disk, which is composed of any suitable material, as tin, iron, or steel.

4 4 is the inner guard or disk, which is composed of four separate pieces cut from a disk of a size somewhat smaller in diameter than the outer guard or disk 3 3 by cutting the same into four equal parts or quarters, each of said four parts being securely riveted to a spring 5 at 8 8, as shown, with each of their circular edges being placed outwardly, so as to form a disk, one end of said springs 5 5 being also se-

curely riveted to the outer guard or disk at 7 7, as shown. The inner edges of said quarters are adapted to slide by each other, said springs automatically allowing for movement to accommodate different-sized apertures which it may be desired to close.

5 5 are four springs, to which the outer and inner guards or disks are securely riveted, and being adapted to yield automatically, so as to allow the inner guard or disk to accommodate different-sized apertures or pipe-holes to be closed and to securely hold the device in place when put into position. Each of said springs 5 5 has its free end 6 6 suitably bent, as shown.

Between the inner guard or disk 4 4, formed of the parts as shown and described, and the outer guard or disk 3 3, when my device is put in position in the aperture to be closed, is the air-chamber 9 9, so that it is impossible for soot, smoke, fire, or heat to pass out into the room when the aperture or pipe-hole is closed with my device, even though the soot in the chimney were to take fire and burn out, as already stated, causing fires through pipe-holes not properly secured.

My device is automatic and self-accommodating and easily put in place, besides being simple and inexpensive in construction.

The outer guard or disk can be made plain or ornamental, as may be desired.

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

In an automatic fireproof flue-stopper, the combination of the cap to cover a pipe-hole, a disk formed of a plurality of sectors of a circle with edges overlapping adapted to pass into the opening, and a plurality of spring-arms connecting all the sectors to the cap, and pressing the edge of said disk against the wall, said arms being elongated and bent back to form additional springs to press against the wall and hold the stopper in place, a chamber being formed between said disk and said cap, as and for the purpose substantially as set forth and described.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT W. DRINKER.

Witnesses:

BECCA TENNISON,
M. VAUBLETINE.