

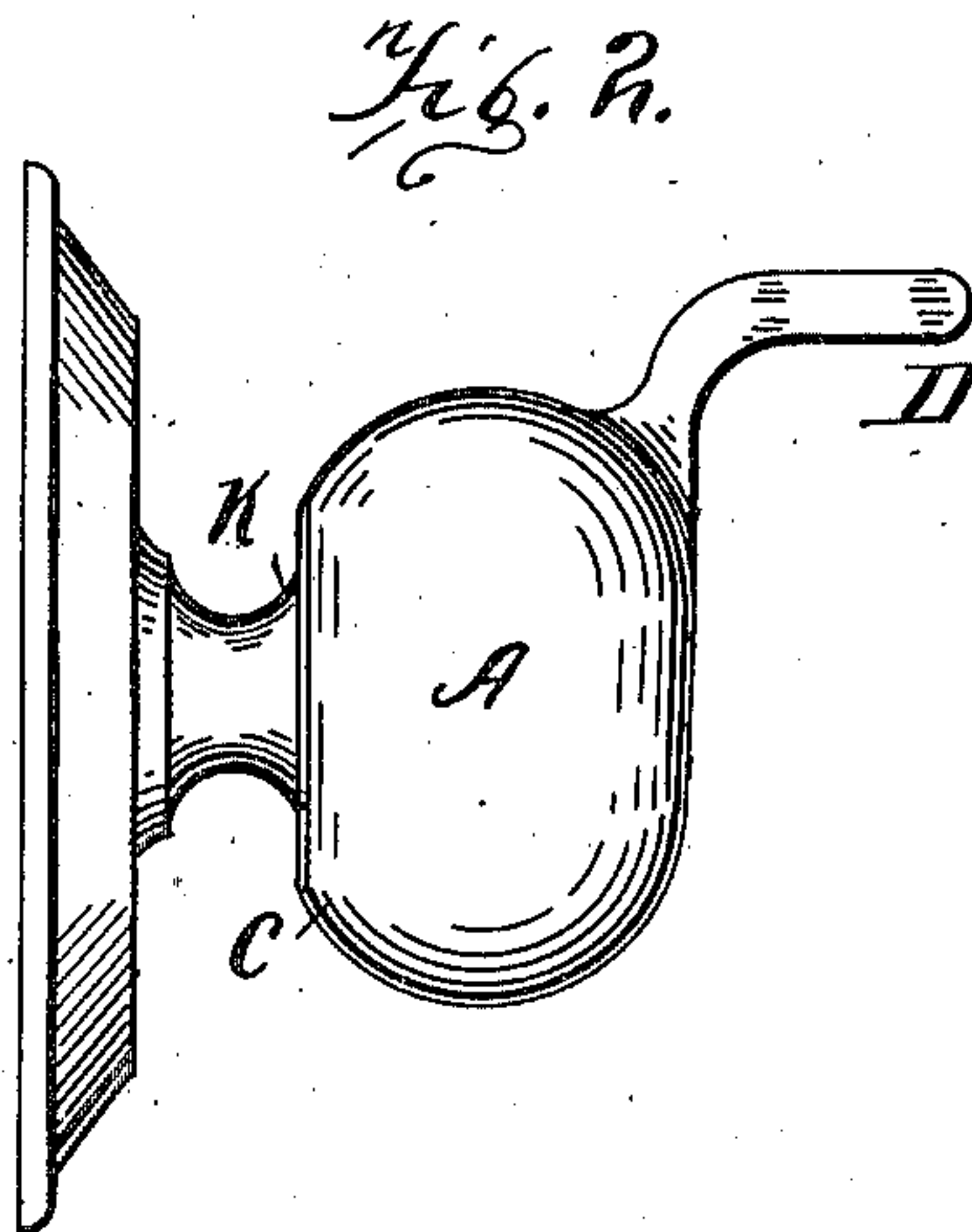
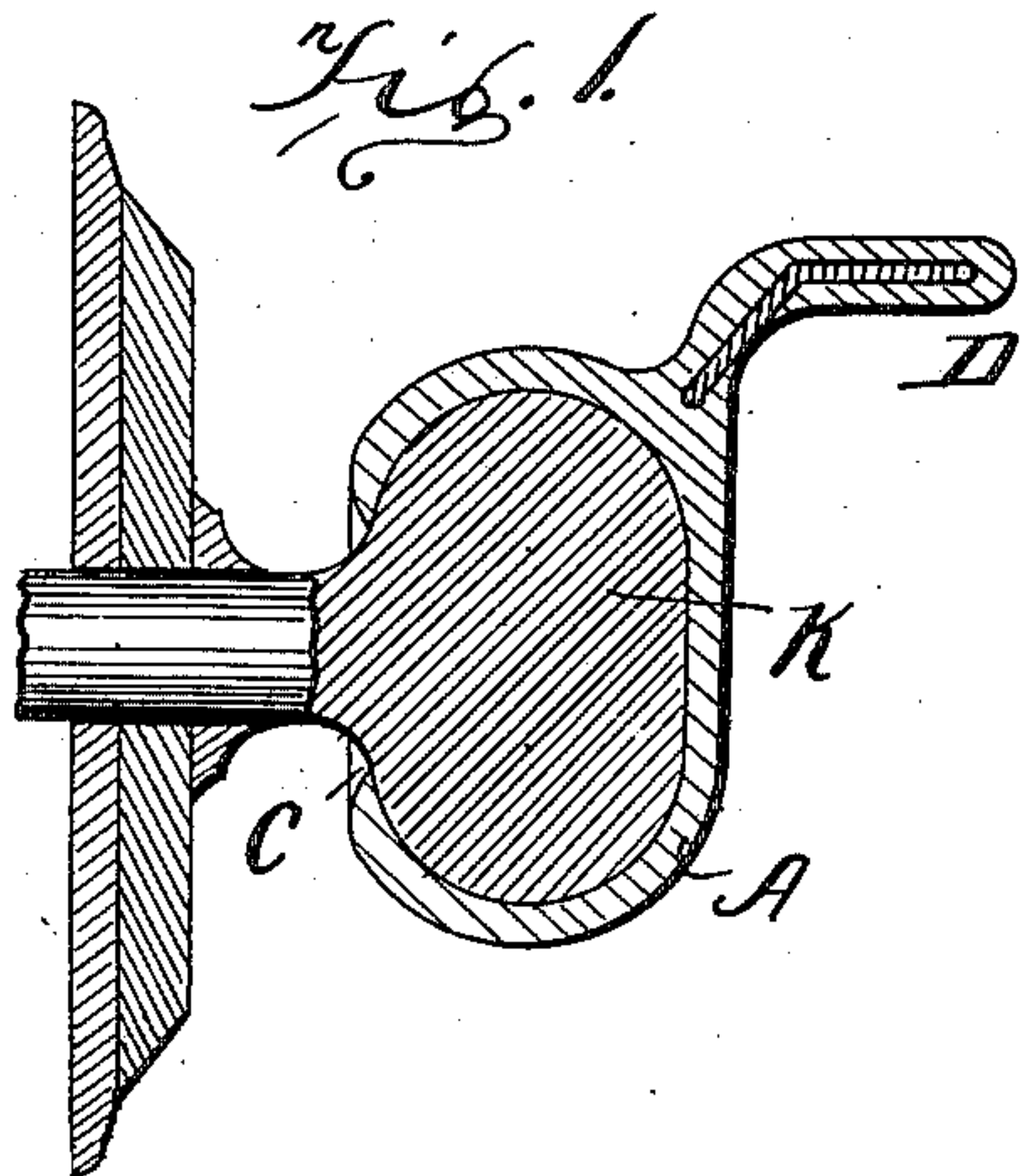
No. 629,999.

Patented Aug. 1, 1899.

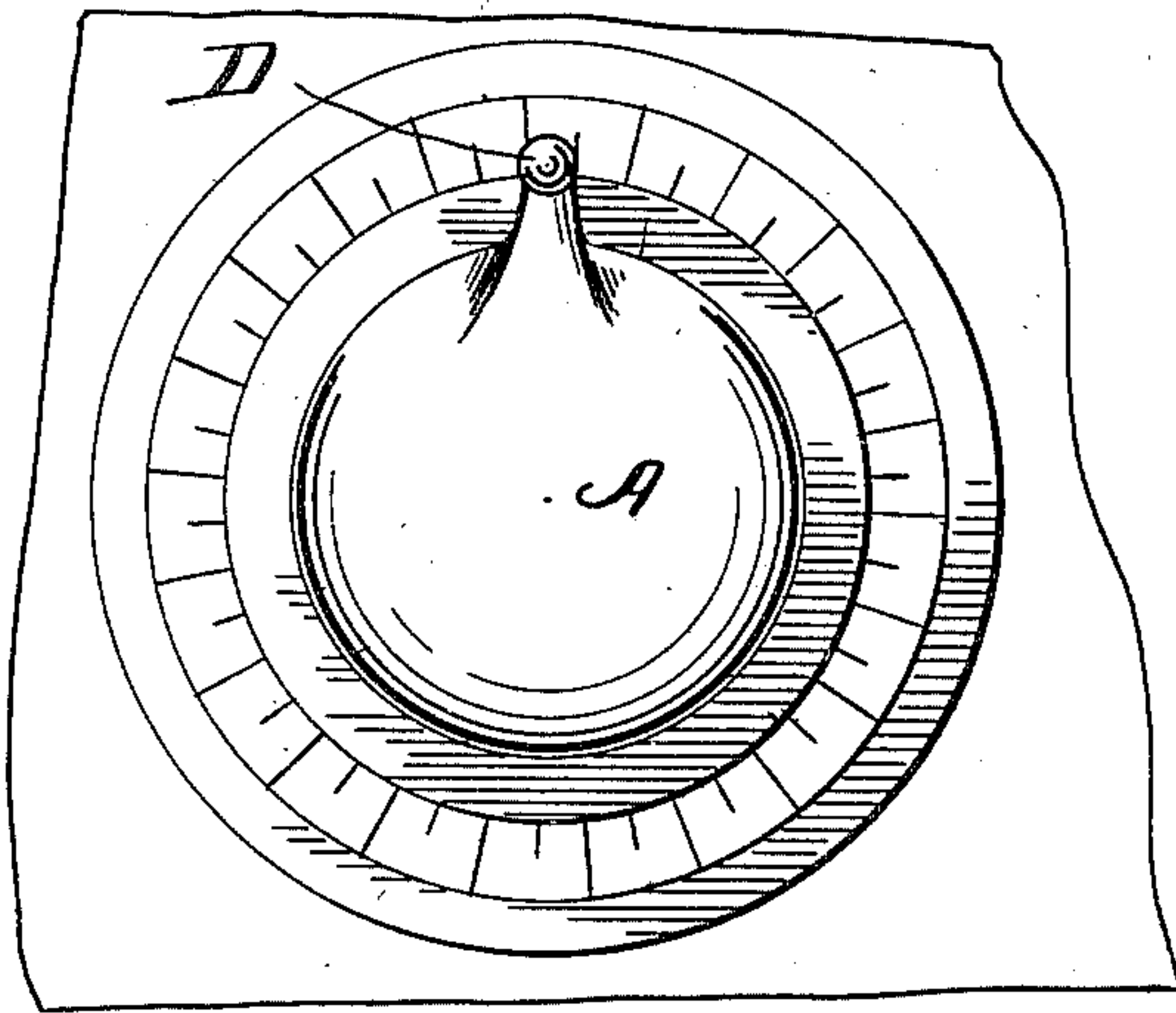
A. G. JACOBS.  
OPERATING HANDLE FOR COMBINATION LOCKS.

(No Model.)

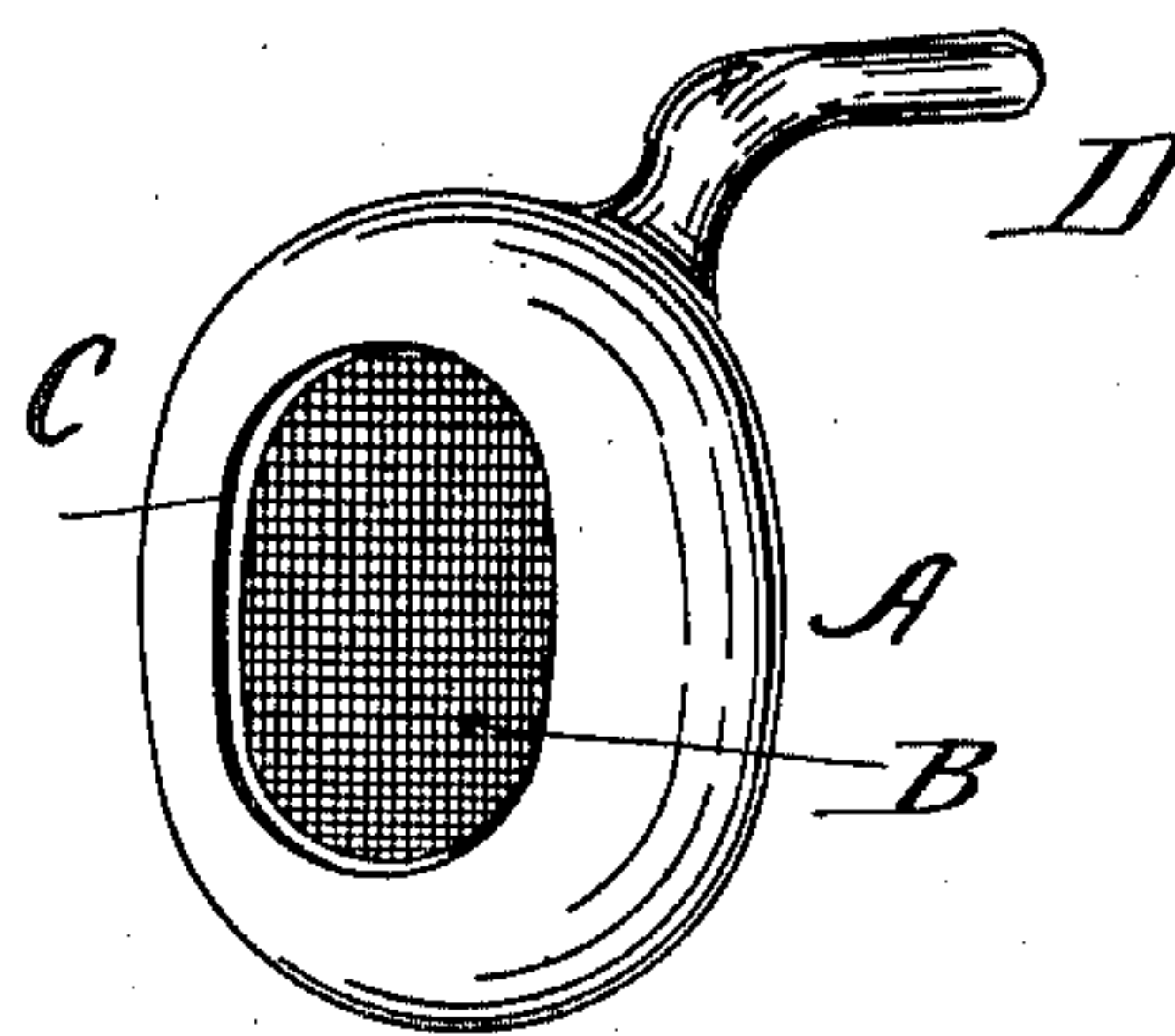
(Application filed Jan. 13, 1899.)



*Fig. 3.*



*Fig. 4.*



WITNESSES  
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# UNITED STATES PATENT OFFICE.

AUGUSTUS G. JACOBS, OF JONESTOWN, MISSISSIPPI.

## OPERATING-HANDLE FOR COMBINATION-LOCKS.

SPECIFICATION forming part of Letters Patent No. 629,999, dated August 1, 1899.

Application filed January 13, 1899. Serial No. 702,016. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUSTUS G. JACOBS, a citizen of the United States, residing at Jonestown, in the county of Coahoma and State of Mississippi, have invented certain new and useful Improvements in Operating-Handles for Combination-Locks, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to operating-handles for permutation-locks.

The object of the invention is to produce an elastic handle or operating-piece which may be applied to the metallic knob of a permutation-lock and serve not only as a hand-grasp to operate the knob, but also to some extent as an indicator of position.

Figure 1 is a vertical section showing cap or handle applied to a knob. Fig. 2 is a side elevation of the same. Fig. 3 is a front view of cap or handle as applied to the knob of a permutation-lock. Fig. 4 is a perspective of the cap and handle.

As is well-known, the combination of permutation-locks on the doors of safes are generally operated by a spindle with a metallic knob at the outer end. Such a knob often affords not a very firm hand-grasp, and should the lock not work easily the hand of the operator may slip on the knob. Considerable care is required in making the turns and reversals or the knob may be turned too far, necessitating the repetition of the operation of unlocking. The flexible or elastic cap or operating-handle of this invention may be quickly applied to such a knob and when applied affords a convenient means for operating the combination in opening the lock.

A indicates a rubber cup or cap having a recess or opening B approximating the size and form of the operating-knob K of a permutation-lock. As most of the safe-locks in use are manufactured by a few manufacturers and as each manufacturer makes but a few varieties, not more than about three or four caps or cups A will be required to fit the knobs of a very large number of safes now in use.

The cap or cup A is made, preferably, of rubber or of rubber with fiber embedded therein, so as to have considerable strength and

some elasticity. The edge C of the cap or cup is drawn in, so as to clasp and secure the cap on the knob when applied thereto, the elasticity of the material enabling the cup to expand sufficiently to pass over the knob when the cup or cap is applied to the knob. The cup or cap when applied to the knob will be retained therein by the elasticity of the material.

A crank or handle D projects from one side of the cap or cup A. This crank or hand-grasp is integral with the cup A, but may have a stiffening-core of metal or other material. This crank affords a handle, by taking hold of which the knob K may be turned. The elastic cup A tightly grasps the knob K, and there is little tendency for cup or cap to slip on the knob. As the handle or crank D is eccentric to the body A, any side pressure on the crank tends to cramp and bind the cup A on the knob, so that a turning of the crank D causes the knob to turn.

The crank or handle D should preferably be applied opposite the zero-point of the scale or index, and thus serves as an indicator to denote the position for reversal of the spindle in working the combination of the lock.

I am aware that metallic crank-handles have been made for application to the knob of a permutation-lock. Such are generally cumbersome and are liable to injure the plating or finish of the knob. My rubber cup does not injure the metal finish, can be easily removed and replaced, and affords a sufficiently strong grasp upon the knob for the purpose indicated.

The inner surface of the cup A may be notched or checkered and the outer surface ornamented in any suitable way. The cup can be made over a collapsible core or in other manner common in the art of working in rubber and similar plastic material.

What I claim is—

1. An operating-handle for application to the knobs of safes, &c., consisting of an elastic cup or cap to inclose said knob, and a crank or hand-grasp integral with said cap or cup.

2. The operating-handle described, having a crank or hand-grasp integral with the rubber cap or cup adapted to close over a knob,



the interior of said rubber cup being roughened, substantially as described.

3. The rubber cup A having its inner surface roughened and the crank D projecting  
5 from the side of said cup, said crank having a strengthening-core, substantially as described.

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

AUGUSTUS G. JACOBS.

Witnesses:

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