

No. 789,164.

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PATENTED MAY 9, 1905.

A. A. LOW.

HOLDER.

APPLICATION FILED MAR. 16, 1904.

3 SHEETS—SHEET 1.

Fig. 1.

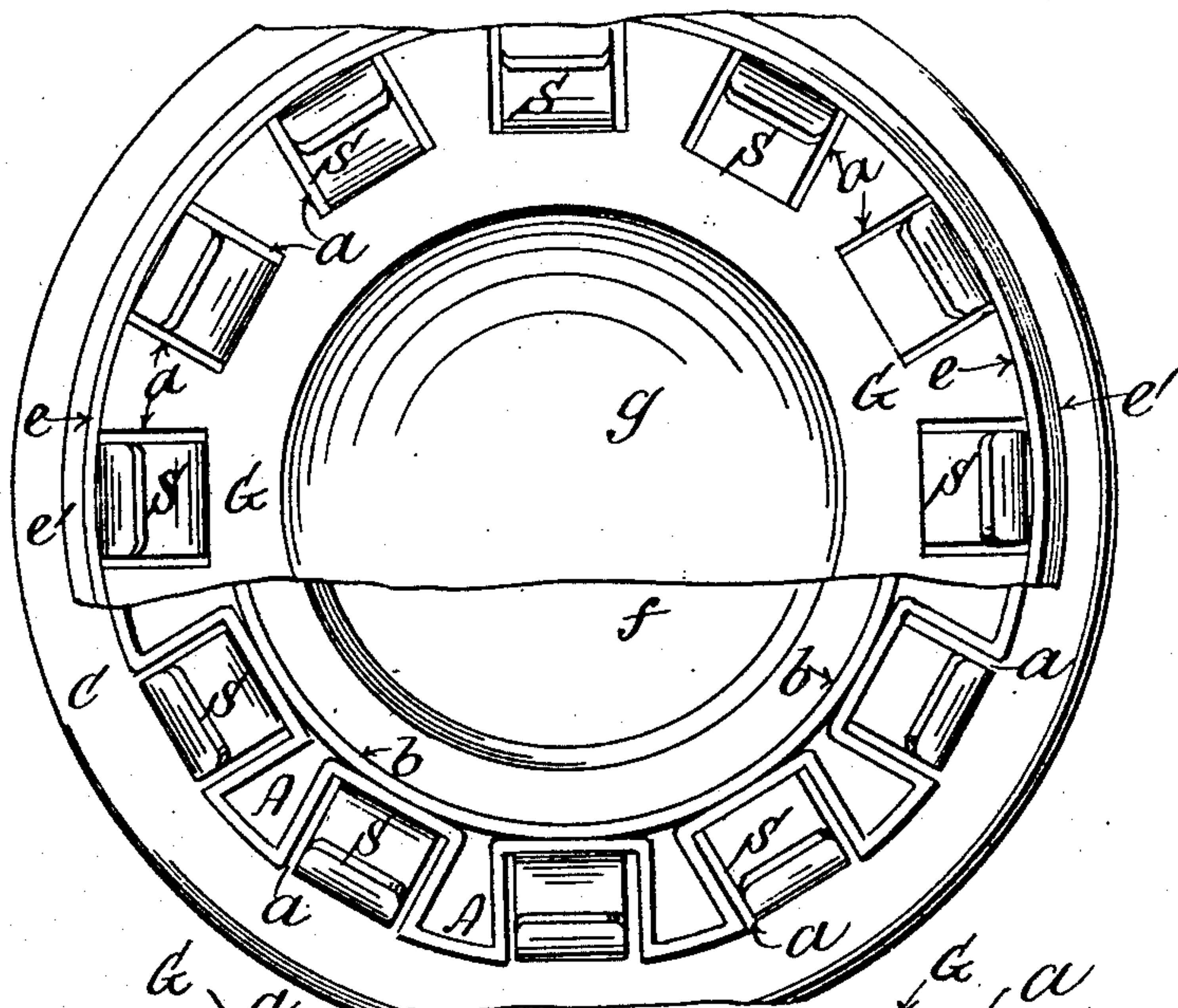
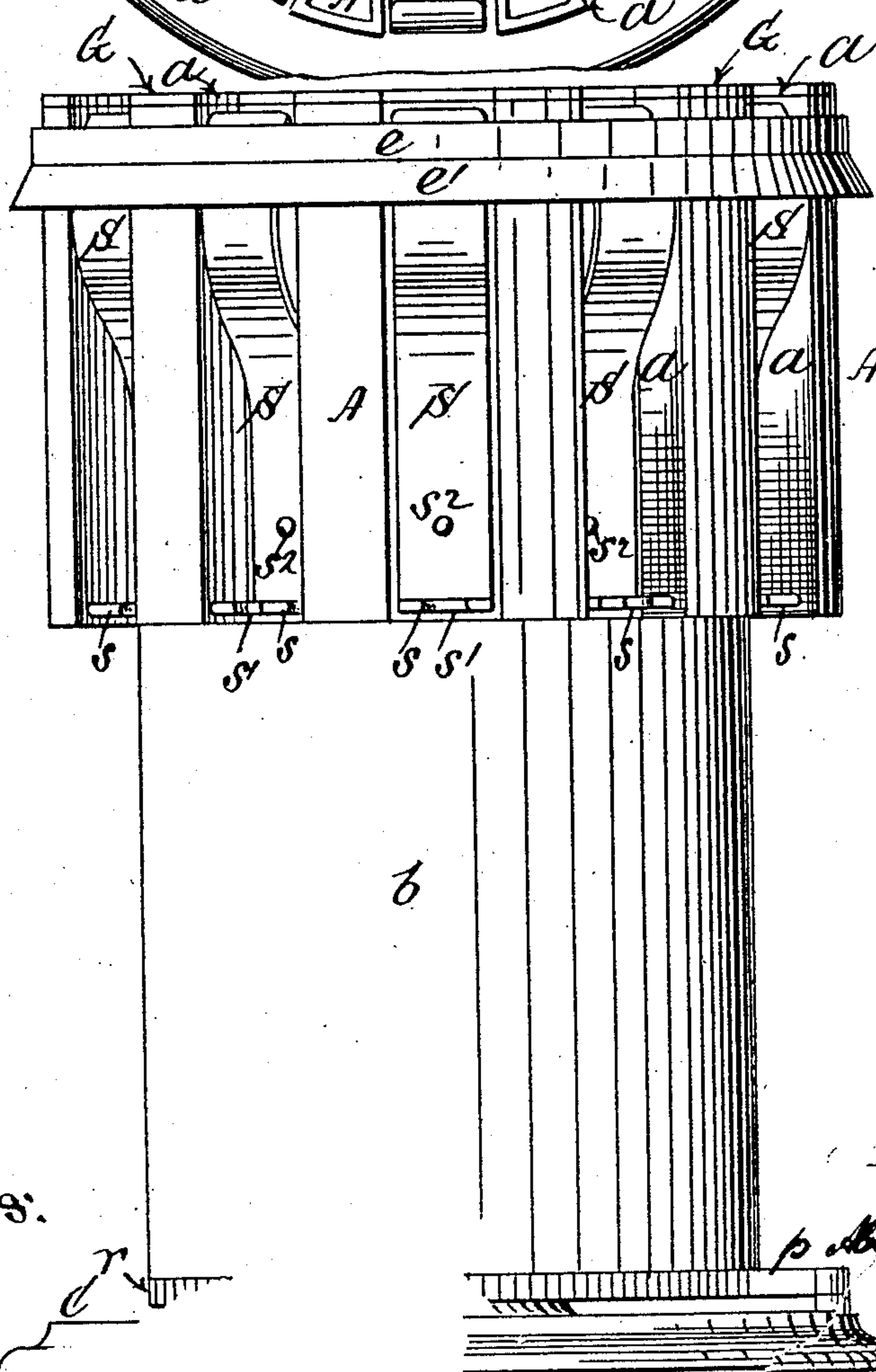


Fig. 2.



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3 SHEETS—SHEET 2.

Fig. 3.

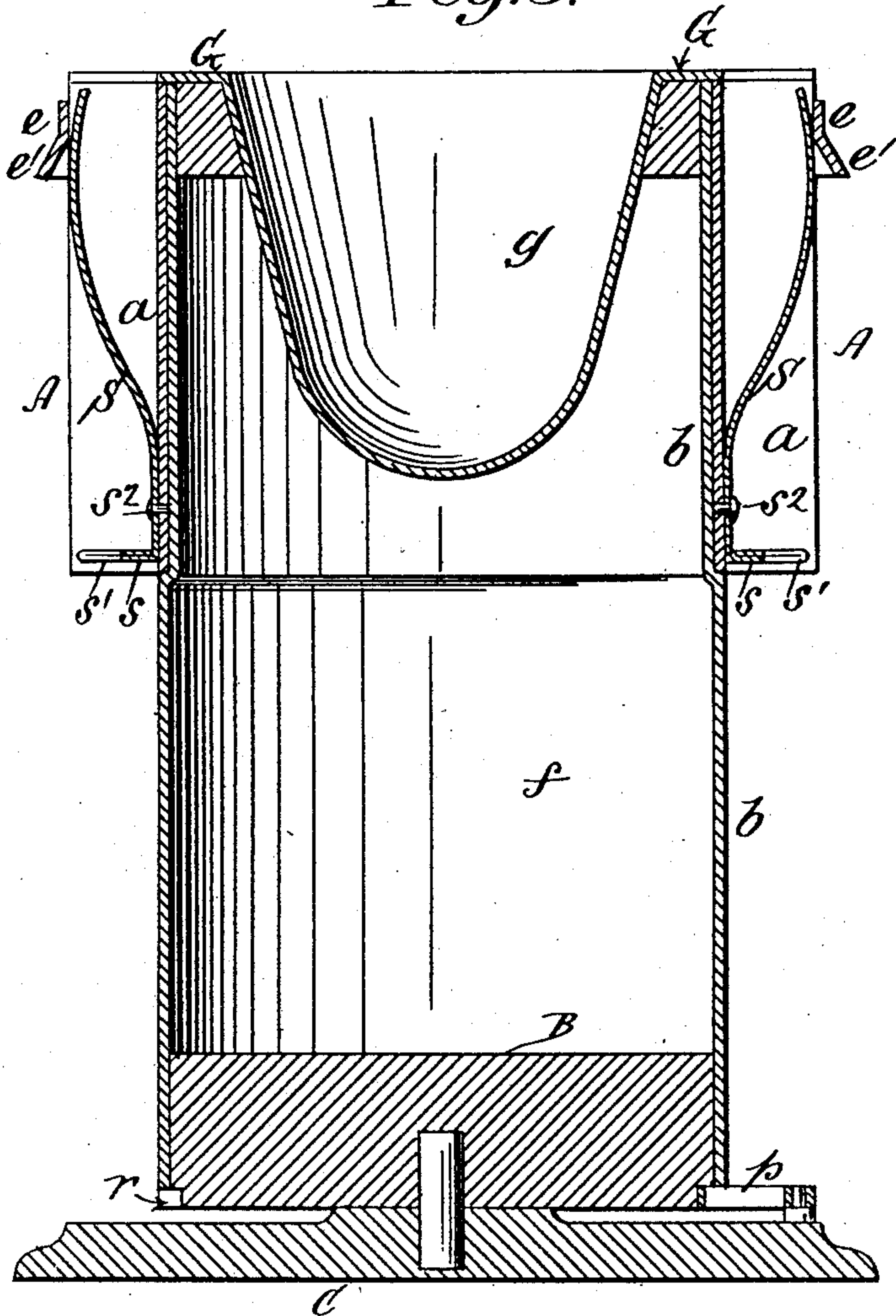
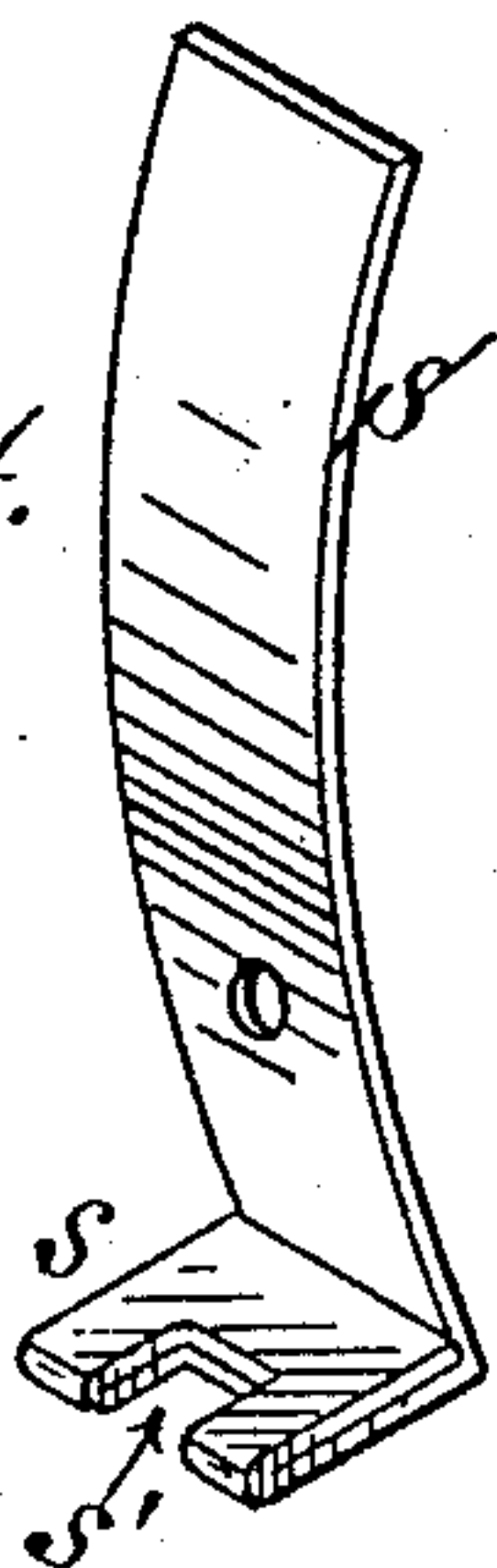


Fig. 4.



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3 SHEETS—SHEET 3.

Fig. 5.

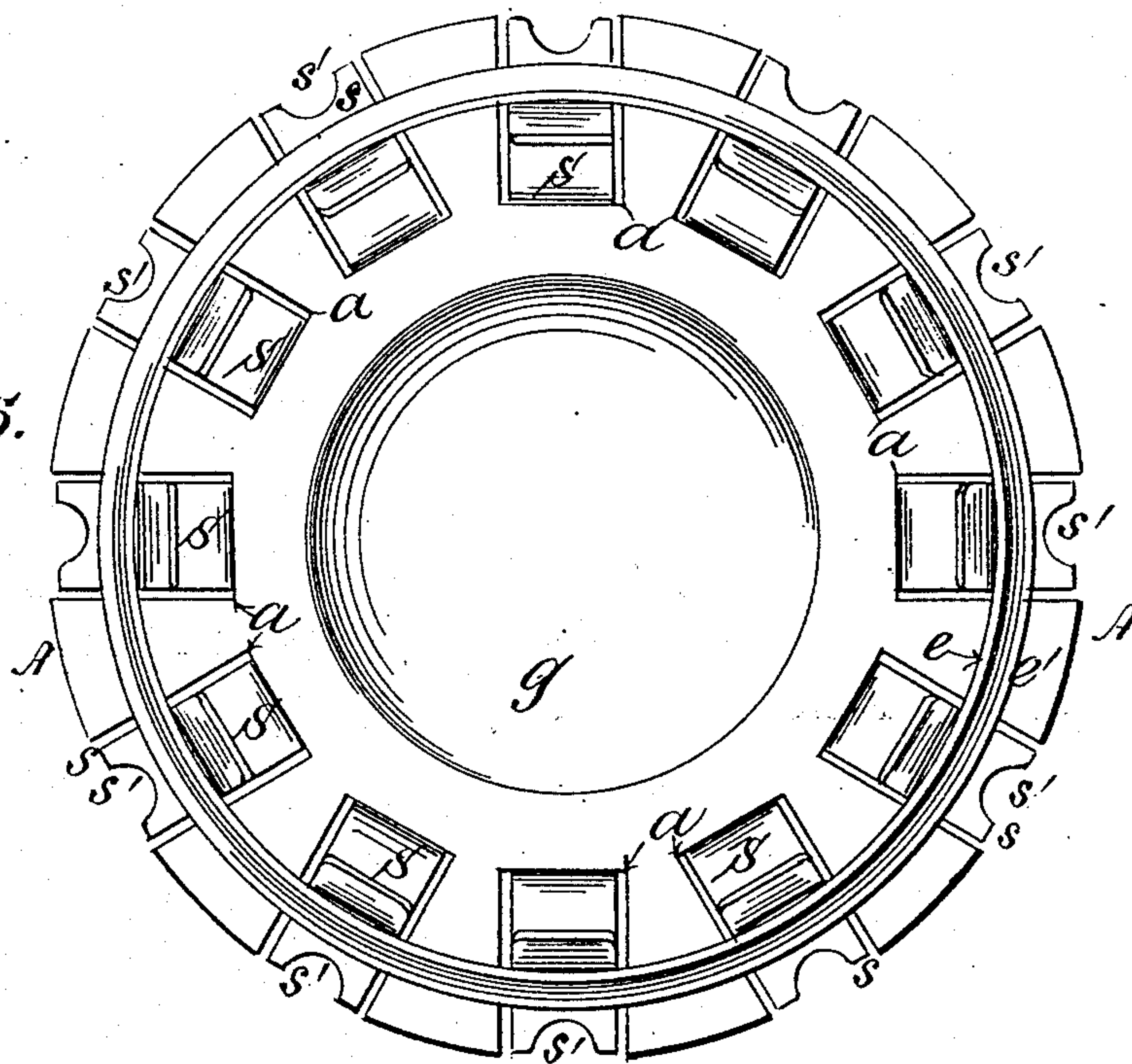
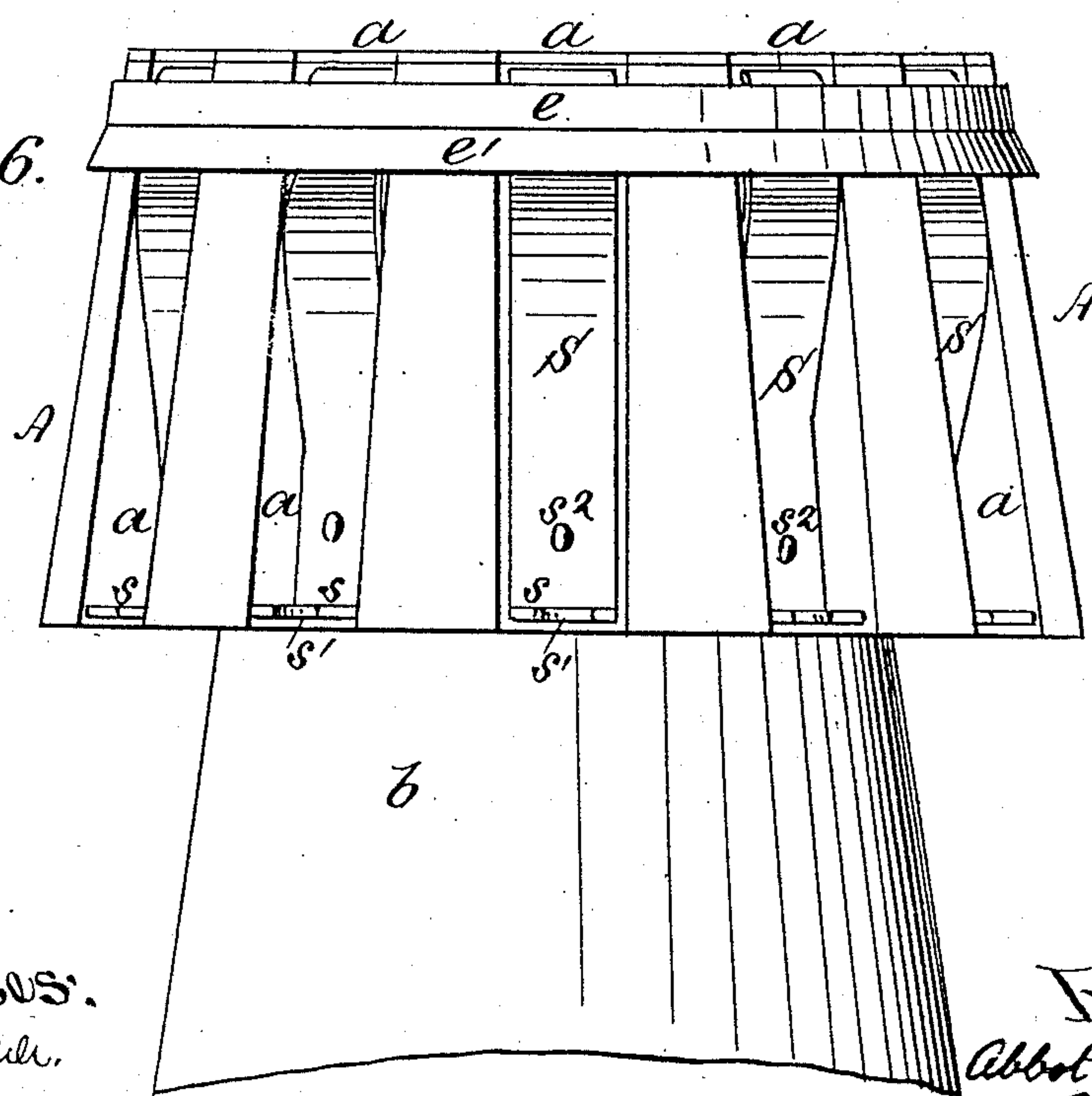


Fig. 6.



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UNITED STATES PATENT OFFICE.

ABBOT AUGUSTUS LOW, OF HORSESHOE, NEW YORK.

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SPECIFICATION forming part of Letters Patent No. 789,164, dated May 9, 1905.

Application filed March 16, 1904. Serial No. 198,393.

To all whom it may concern:

Be it known that I, ABBOT AUGUSTUS LOW, a citizen of the United States, residing at Horseshoe, St. Lawrence county, and State of New York, have invented certain new and useful Improvements in Holders, of which the following is a specification sufficient to enable others skilled in the art to which the invention appertains to make and use the same.

My invention relates, primarily, to holders for use upon desks, although suitable for use in connection with other supports and for analogous purposes, as for the storage and presentation ready for use of various tools and implements aside from pens, pencils, and similar desk furniture, for which the form shown in the accompanying drawings is especially designed.

My present invention consists, essentially, in a rotatable rack constructed and arranged as hereinafter described and claimed specifically.

In the accompanying drawings, Figure 1 is a top view of my improved holder made in cylindrical form, the cap-plate and front rest or guard being partly broken away to show the upper edge of the rack-plate. Fig. 2 is an elevation of the same. Fig. 3 is a central vertical section; Fig. 4, an isometrical view of one of the spring-holders; Fig. 5, a top view of the holder made in the form of a truncated cone; Fig. 6, an elevation of the same.

The rack A is made of a single piece of sheet metal stamped out to form the backs, sides, and connecting-webs of a series of vertical grooves or pockets *a a*, the rack thus formed being bent into cylindrical, conical, or other desired convex shape and attached to a suitable backing *b*, secured to a base B, which latter is rotatably mounted on a bed or support C by any mechanical expedient. The rotatable base B is preferably formed with an annular rack *p* for engagement with a spring detent or pawl *p* for the purpose of holding the base in any prescribed position. Each vertical groove or pocket is provided with a stationary front rest or guard *e* and with a spring-holder S, arranged to press against the inner surface of said guard, so that any object interposed between them will

be firmly held in place in the pocket *a*. The front rest or guard *e* is formed with a flange *e'*, projecting at an angle to facilitate the introduction of objects between the spring-clamp and the rest *e*.

s is a support in each groove for the reception and alinement of the article held suspended in the pocket by the spring-holder S. This support *s* is formed with a recess *s'*, into which the body of the article fits and by which it is centralized. A feature of my invention consists in making this rest or support *s* in one piece with the holder-spring S, as shown in the drawings, the holder S and support *s* being secured by a single rivet or equivalent *s''* to the back of the pocket *a*, as will be understood by reference to Fig. 3.

The flanged guard-rest *e e'* is made continuous and annular when the rack is bent into cylindrical or conical form or to otherwise conform to the shape of the rack, which latter may obviously be made of oval or even rectangular form without departing from the spirit and intent of my invention in this respect which contemplates a rack of the specific sheet-metal construction described mounted rotatably upon a suitable base. Thus in the accompanying drawings the rack is shown as bent into cylindrical and also into conical form, and it is obvious that any desired form of convexity may be resorted to with substantially the same results practically, the grooves or pockets in any case being presented in different planes around the axis of rotation.

The space *f*, inclosed by rack-plates A, may be utilized in various ways, as by the use of a cup or receptacle *g*, formed in the circular cap-plate G, as shown, or such space *f* itself may be used as a receptacle for objects.

When the holder is made in the form of a truncated cone, as shown in Figs. 5 and 6, it is better adapted for the reception and support of heavy articles and implements, since in that case the weight will be sustained largely by the supports *s*, and the spring-holder S will thus be retrieved in part by gravity of the strain to which it would otherwise be subjected.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A rotatable rack of the character designated, consisting of a series of grooves or pockets formed of sheet metal, the rack-plate thus formed being bent into convex shape and secured to a rotatable base, together with a front guard-rest common to all the grooves or pockets, a spring in each groove or pocket arranged to press objects against the inner side of said front guard-rest, and a support in each groove or pocket below said spring arranged to sustain and centralize an object clamped between the spring and the front guard, substantially as set forth.

2. A rack of the character designated, consisting of a series of grooves or pockets formed of sheet metal, a front guard-rest common to all the grooves or pockets, said front guard-rest being formed with an annular flange for the purpose set forth, and a spring in each groove or pocket arranged to press objects against the inner side of said front guard-rest for the purpose set forth.

3. A rack of the character designated, consisting of a series of grooves or pockets

formed of sheet metal, a front guard-rest common to all the grooves or pockets, and a spring-clamp in each groove or pocket formed in one piece with a support for the body of the article to be held said support being formed with a centralizing-recess, substantially as and for the purpose described.

4. A rotatable rack of the character designated consisting of a series of grooves or pockets formed of a single sheet of metal, the rack-plate thus formed being bent into shape with the grooves or pockets inclined and converging upward, a front guard-rest common to all the grooves or pockets, a spring in each groove or pocket arranged to press objects against the inner side of said front guard-rest, and a support in each groove or pocket below said spring arranged to sustain and centralize an object clamped between the spring and the front guard, substantially as set forth.

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Witnesses:

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