

E. J. BROOKS.

SEAL.

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919,316.

Patented Apr. 27, 1909.

Fig. 1.

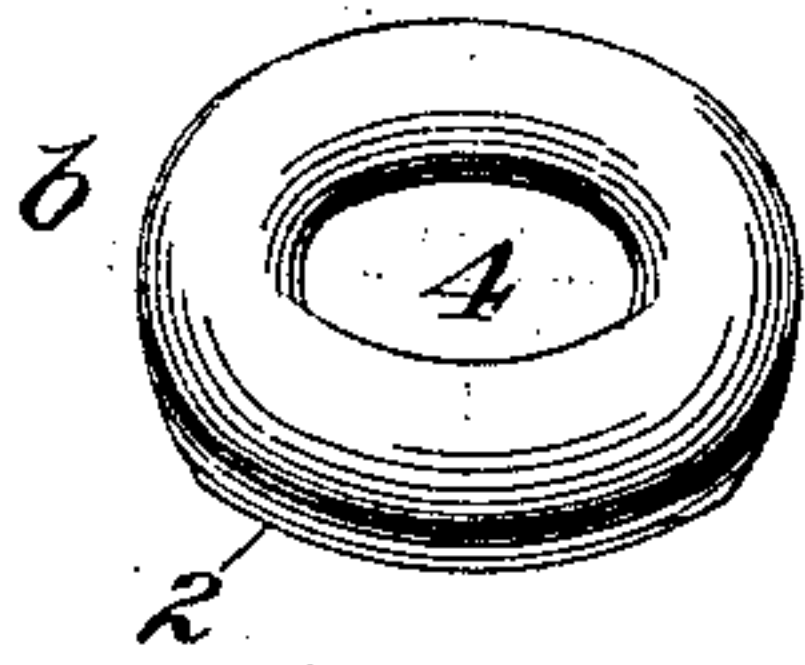


Fig. 2.



Fig. 3.

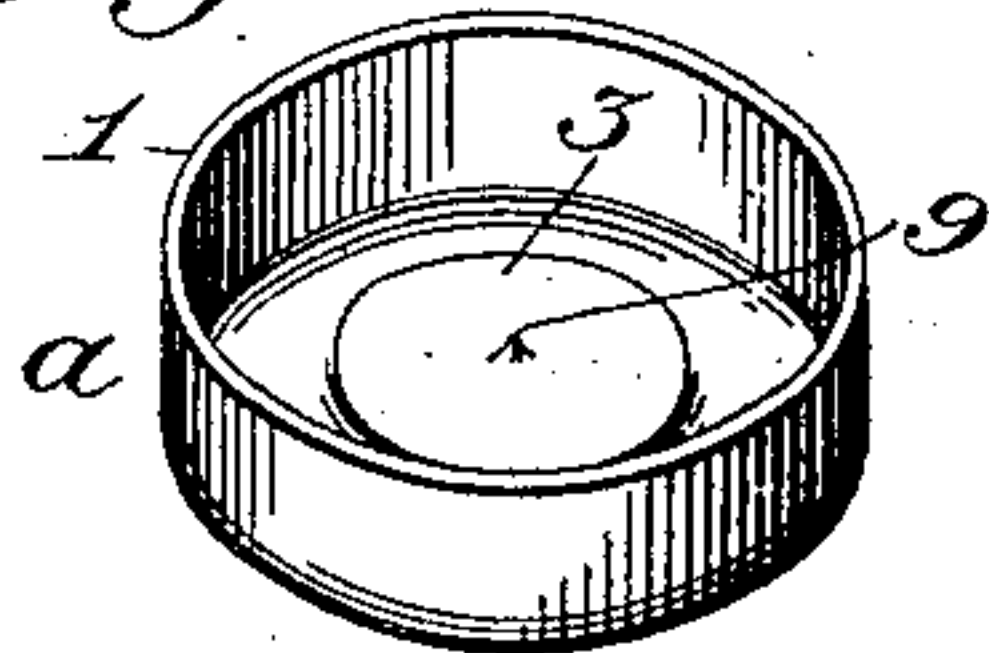


Fig. 4.

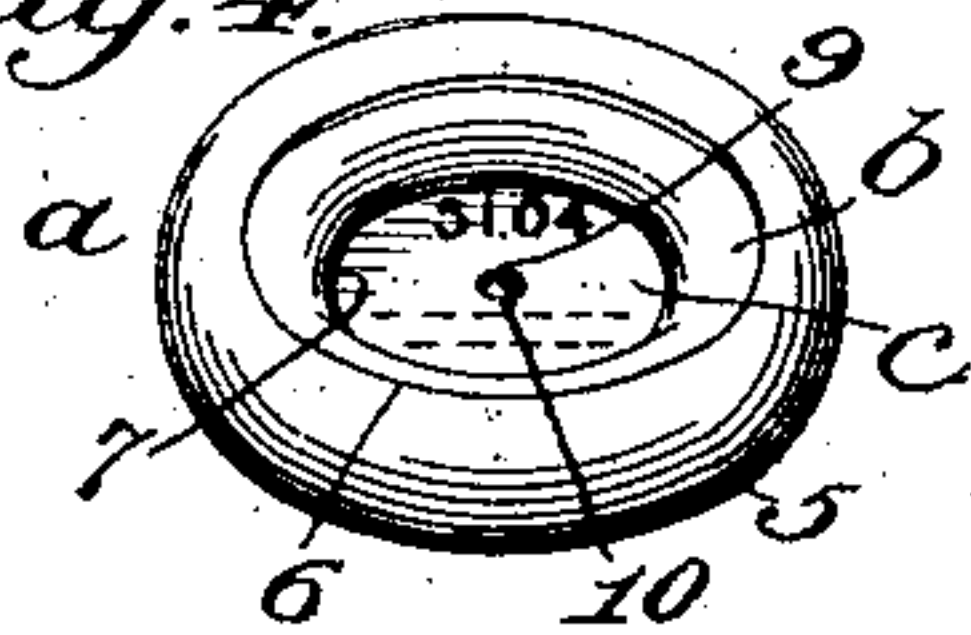


Fig. 5.

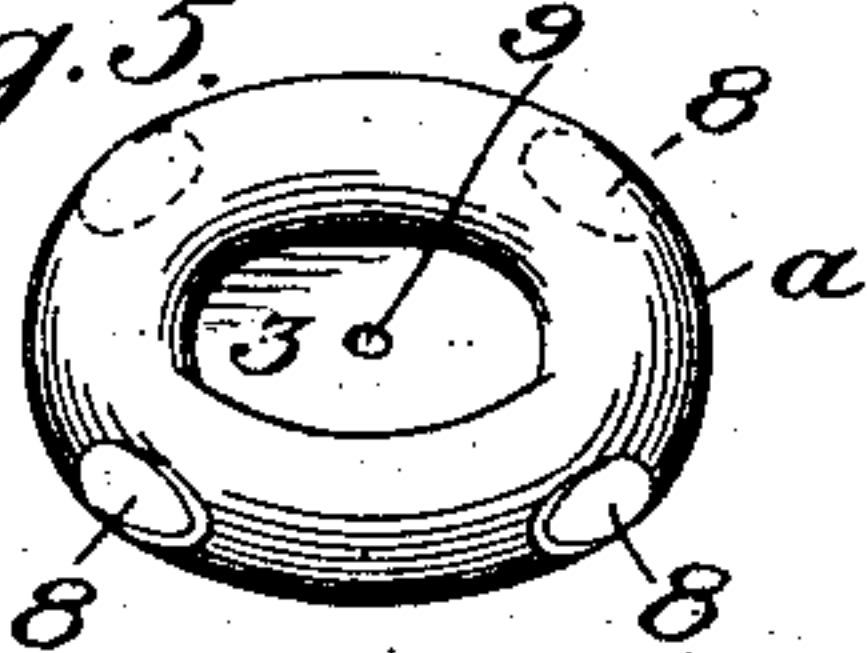


Fig. 11.

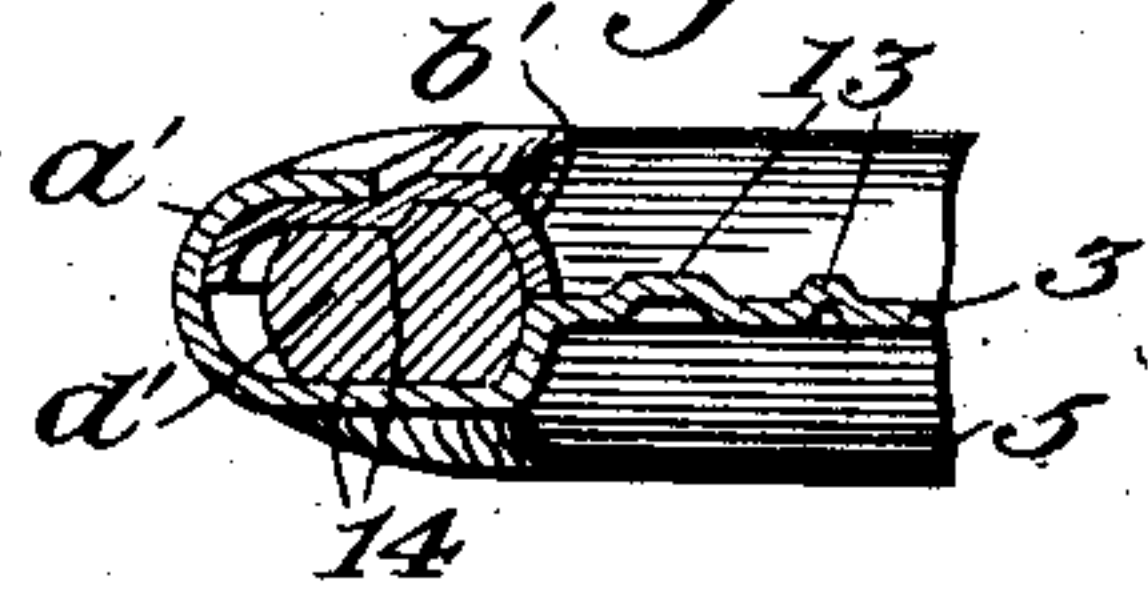


Fig. 6.

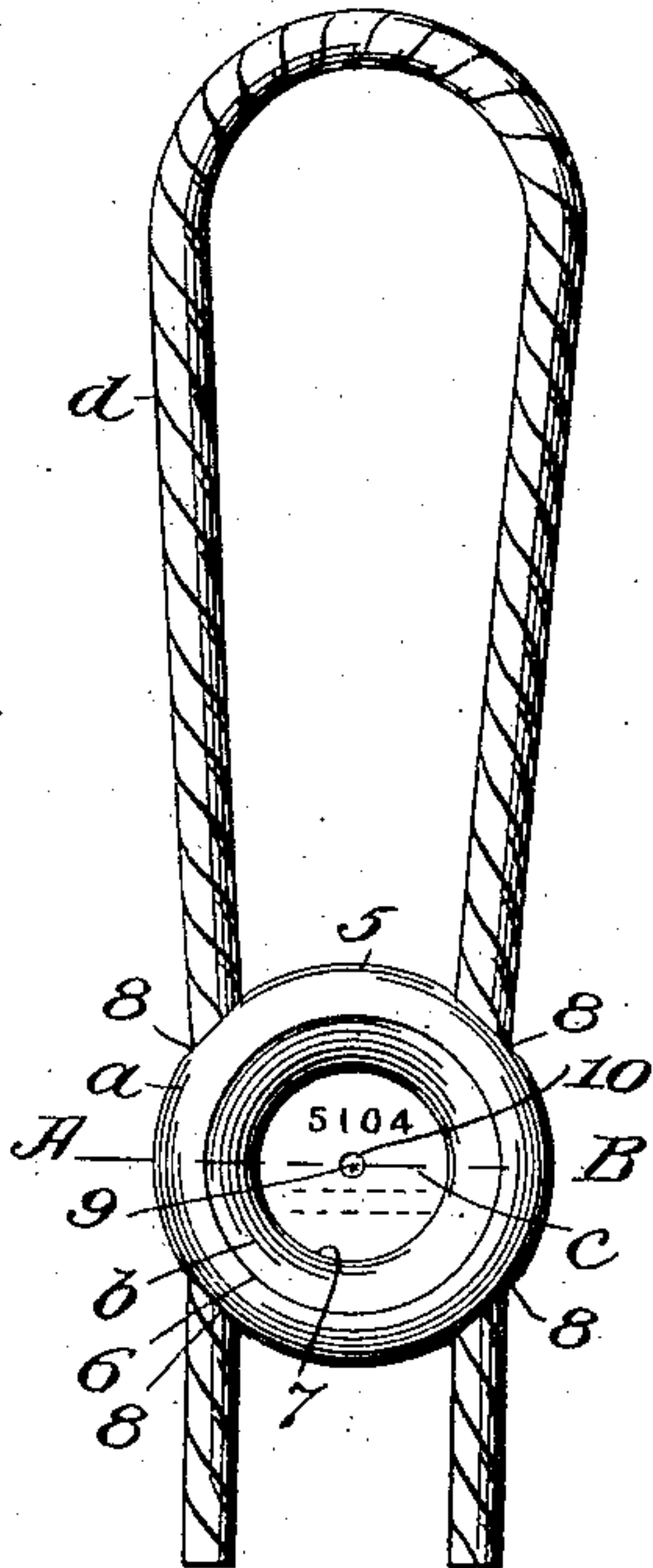


Fig. 7.

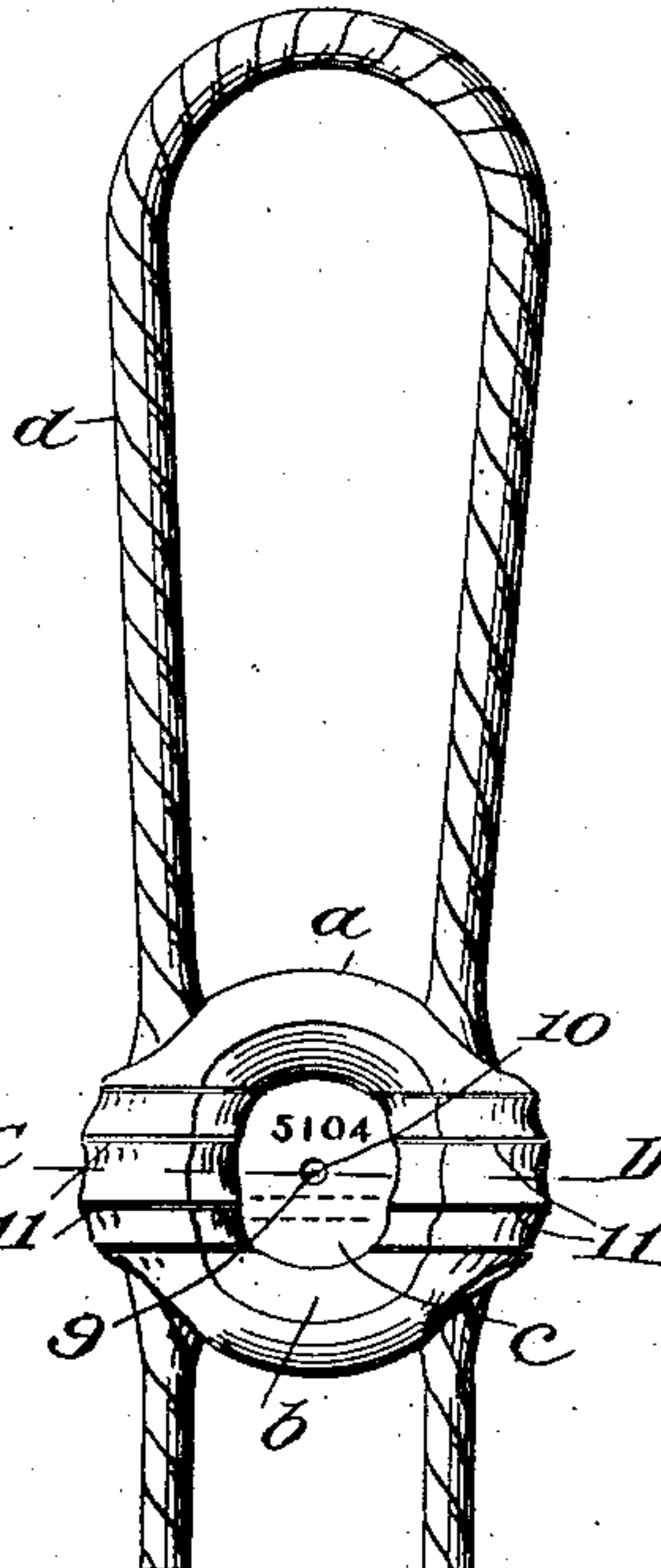


Fig. 8.

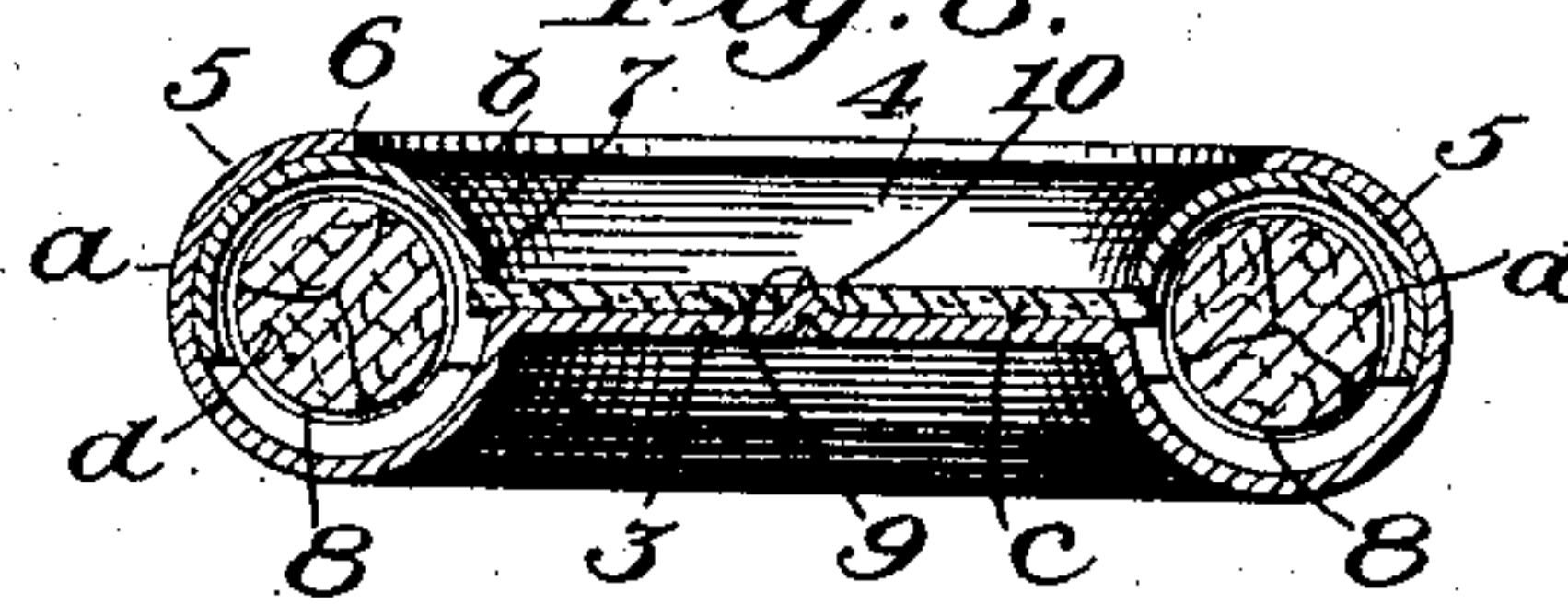
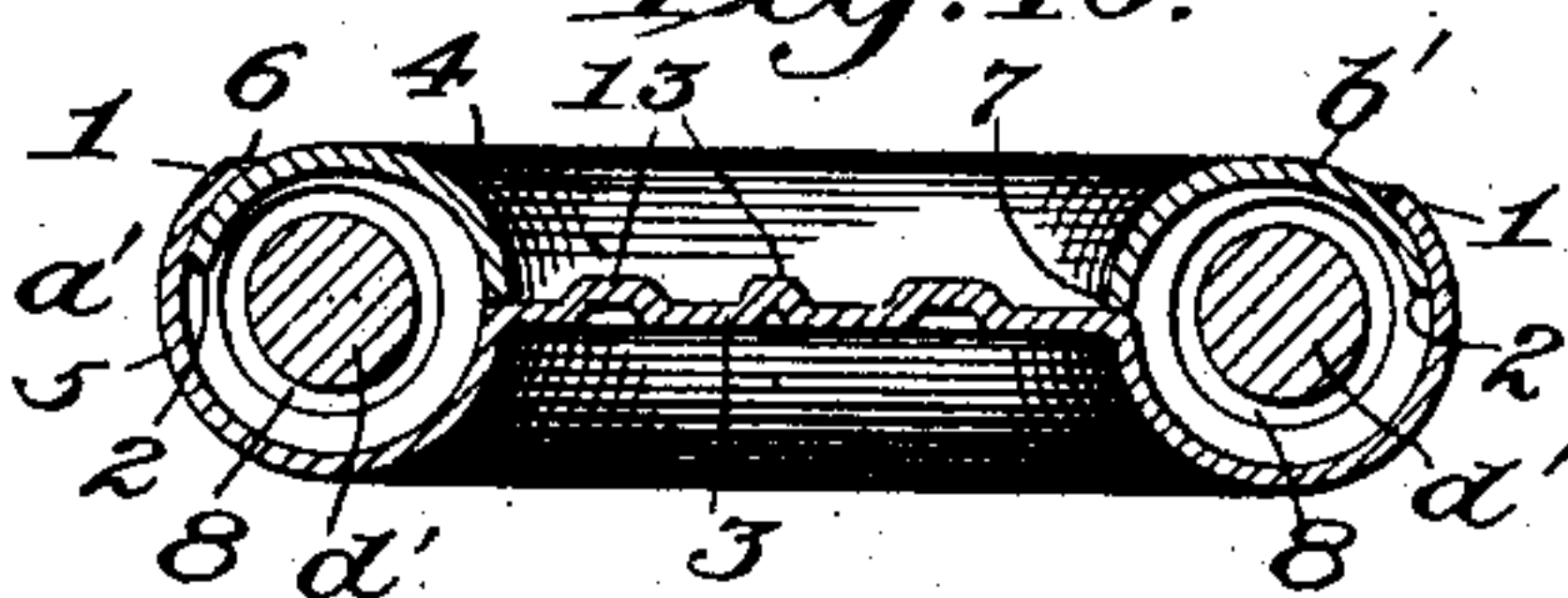


Fig. 9.



Fig. 10.



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# UNITED STATES PATENT OFFICE.

EDWARD J. BROOKS, OF EAST ORANGE, NEW JERSEY.

## SEAL.

No. 919,316.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed February 9, 1909. Serial No. 476,888.

*To all whom it may concern:*

Be it known that I, EDWARD J. BROOKS, a citizen of the United States of America, and a resident of East Orange, in the State of New Jersey, have invented a new and useful Improvement in Seals, of which the following is a specification.

This invention is additional to the improvements in seals described and claimed in my specifications forming part of United States Letters Patent No. 630321 dated August 8, 1899, No. 646798 dated April 3, 1900, and No. 909363 dated January 12, 1909, and relates therewith to press fastened or press fastenable seals having seal disks constructed with tubular rims and made wholly or chiefly of sheet metal. In order to make such seal disks or their sheet-metal parts in one piece for cording seals such as that represented by Figures 7 and 8 of said Patent No. 646798, or for seals in which large shackle wire must be used, it has heretofore been necessary to employ selected and expensive sheet metal to insure the requisite ductility.

The leading object of the present invention is to provide for making seal disks with tubular rims having any required diameter of bore from relatively cheap sheet metal, such as unselected scrap tin (tin plate).

Another object is to facilitate centering a label disk of paper or the like in such seals.

Other objects will be set forth in the general description which follows.

Figs. 1, 2 and 3 are perspective view of the parts of a combined sheet-metal seal disk and label as they appear before being united with each other; Fig. 4 is a perspective view showing the same parts permanently united with each other; Fig. 5 is a perspective view of the completed seal disk showing its other side as compared with Fig. 4; Figs. 6 and 7 are face views of a cording seal embodying said seal disk as it appears before and after being press fastened; Fig. 8 represents an enlarged section on the line A—B, Fig. 6; Fig. 9 represents a like section on the line C—D, Fig. 7; and Figs. 10 and 11 are like sectional views of an improved seal having a shackle of heavy wire and illustrating other modifications of the same invention.

Like reference characters refer to like parts in all the figures.

The improved press fastenable seal disk to which the novel construction is confined

includes in each of its forms a cup-shaped sheet metal main part, *a* or *a'*, and a sheet-metal annular part, *b* or *b'*, having rims, 1 and 2, which fit one within the other, with the rim 1 of the main part outermost, and are united to form a tubular rim, 5, Fig. 4, as large as may be required; said main part being further constructed in its original stamped form (Fig. 3) with a flat central portion, 3, corresponding with the central opening, 4, in the annular part (Fig. 1); a circumferential lap joint, 6, being formed between said rim of the main part and said annular part adjacent to the outer edge of the latter and a butt joint, 7, at the inner edge of said annular part opposed to said flat portion 3 of the main part.

In each of its forms the improved seal disk is further provided with threading holes, 8, preferably in two pairs as shown in full and dotted lines in Fig. 5, which may be drilled or punched in the disk after it is otherwise completed, as represented by this figure, and thus formed in both of the sheet-metal parts of the seal disk in perfect alinement. In the species represented by Figs. 1 to 9, inclusive, said flat portion 3 of the main seal-disk part *a* is further constructed with a centering point, 9, at the middle thereof, and a label disk, *c*, of paper or the like, is made of the same diameter as the flat portion 3, and provided with a central hole, 10, fitted to said centering point 9 thereon, so as to be clamped within said butt joint 7 between the marginal edge of said flat portion 3 and the inner edge of the annular part *b*, as best shown in Fig. 8. Said label disk *c* may be of paper, cardboard, cloth or the like, suitably waterproofed, and provided with permanent distinguishing marks such as are represented by the serial number "5104" in Figs. 2, 4, 6 and 7, with blanks in which the name or initials of the sealer and the date of sealing or the like may be written or stamped. After threading the seal disk with a flexible shackle, *d*, of heavy cord, for example, as illustrated by Figs. 6 and 8; the shackle having been passed around or through the object that is to be sealed, or through staples or the like inseparably attached thereto, the seal disk is press fastened by means of a suitable seal press or tongs, as illustrated by Figs. 7 and 9. In this operation the tubular rim 5 through which the ends of the shackle extend is flattened to a



sufficient extent to permanently fasten the shackle therein against withdrawal as represented at 11, and the sheet metal may at the same time be punctured or indented to form  
 5 one or more inwardly projecting spurs, 12, to interact with each end of the shackle, as represented in Fig. 9.

In the species represented by Figs. 10 and 11 the rims 1 and 2 of the respective sheet-  
 10 metal parts are shortened so as to lighten them. The outer rim 1 may overlap the annular part *b'* as little as one-eighth or even one-sixteenth of an inch, as the overlapping of the parts is increased at the press  
 15 fastening operation. In this species (Figs. 10 and 11) the label disk *c* of the first species (Figs. 1-9) is also omitted, and the flat portion 3 of the main part *a'* is provided with embossed distinguishing  
 20 marks represented at 13 in Figs. 10 and 11. These figures further illustrate the employment of the improved seal disk in either of its forms in connection with a flexible  
 25 shackle, *d'*, of heavy wire, which is sometimes required, and which may be secured either by indenting the wire at the press fastening operation, as represented at 14 in Fig. 11, or by bending it to a sufficient  
 30 extent between the dies of the seal press. Distinguishing marks may obviously be formed by printing or enameling instead of by embossing the central portion of the main part *a'* in said second species (Figs. 10 and 11); and other like modifications  
 35 will suggest themselves to those skilled in the art.

Having thus described said improvement, I claim as my invention and desire to patent under this specification:

1. A press fastenable seal disk having a  
 40 tubular rim provided with threading holes, and including a cup-shaped sheet-metal main part and a sheet-metal annular part interacting with said main part to form  
 45 said tubular rim; a lap joint being formed between said parts adjacent to the outer edge of said annular part and a butt joint at its inner edge.

2. The combination, in a press fastenable  
 50 seal disk, of a cup-shaped sheet-metal part having a flat central portion provided with a centering spur, a sheet-metal annular part interacting with said main part to form a  
 55 tubular rim surrounding said central portion and having a lap joint between its outer edge and said main part and a butt joint adjoining said centering portion, and a label disk of paper or the like having a  
 60 centering hole to interact with said spur on said central portion and fastened at its margin within said butt joint.

3. In combination with a flexible shackle  
 65 of large cord or the like, a press fastenable seal disk having a large-bore tubular rim provided with threading holes and including a cup-shaped main part of sheet-metal having a flat central portion and a sheet-metal annular part interacting with said  
 70 main part to form said tubular rim, a lap joint being formed between said parts adjacent to the outer edge of said annular part and a butt joint at its inner edge, substantially as hereinbefore specified.

EDWARD J. BROOKS.

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