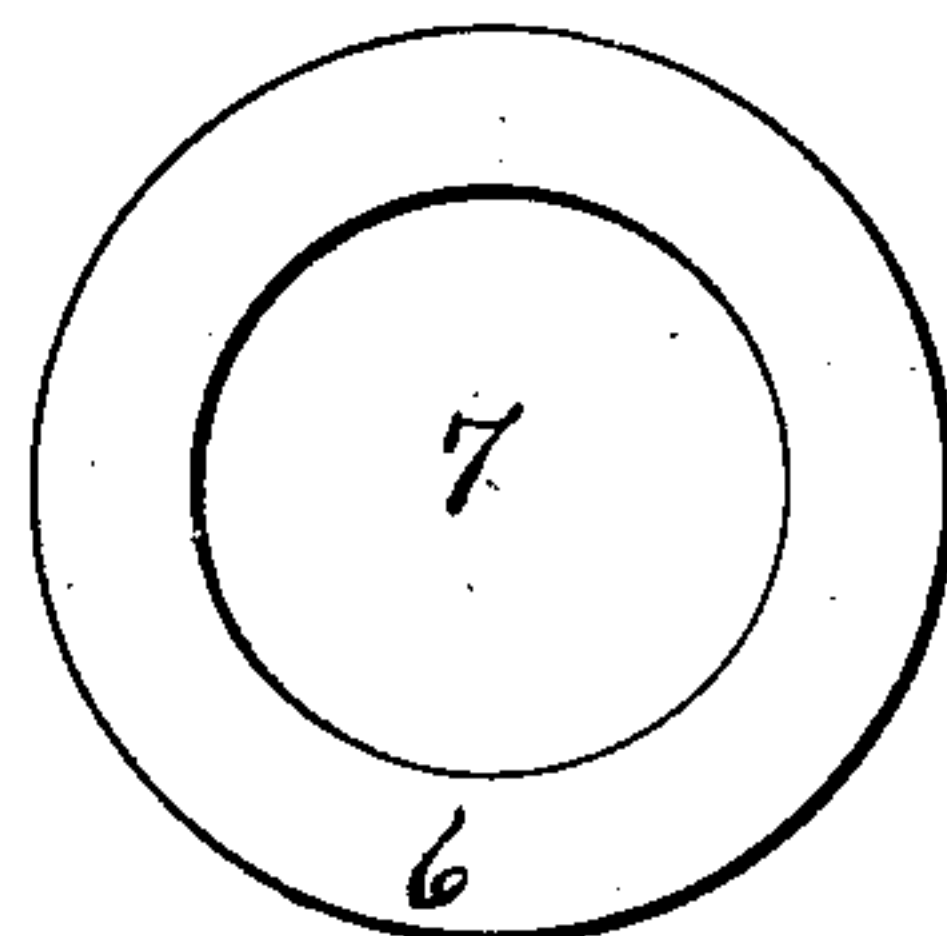
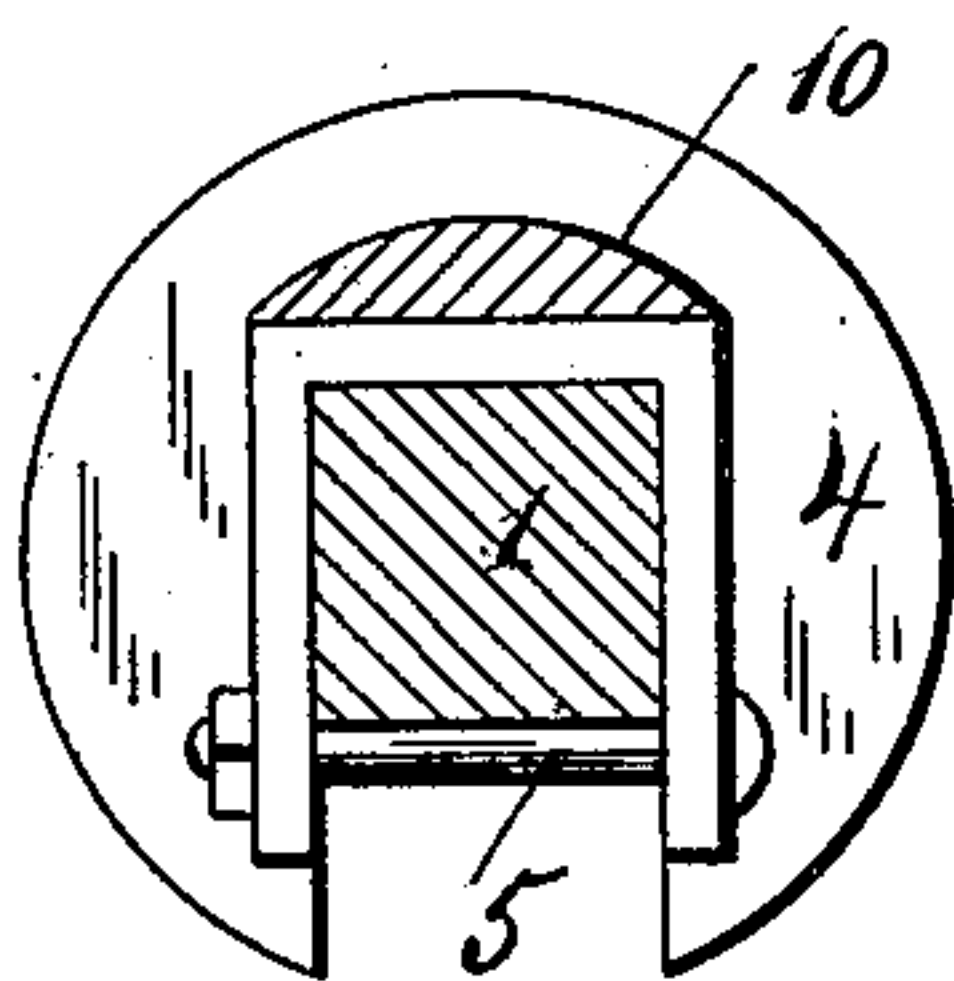
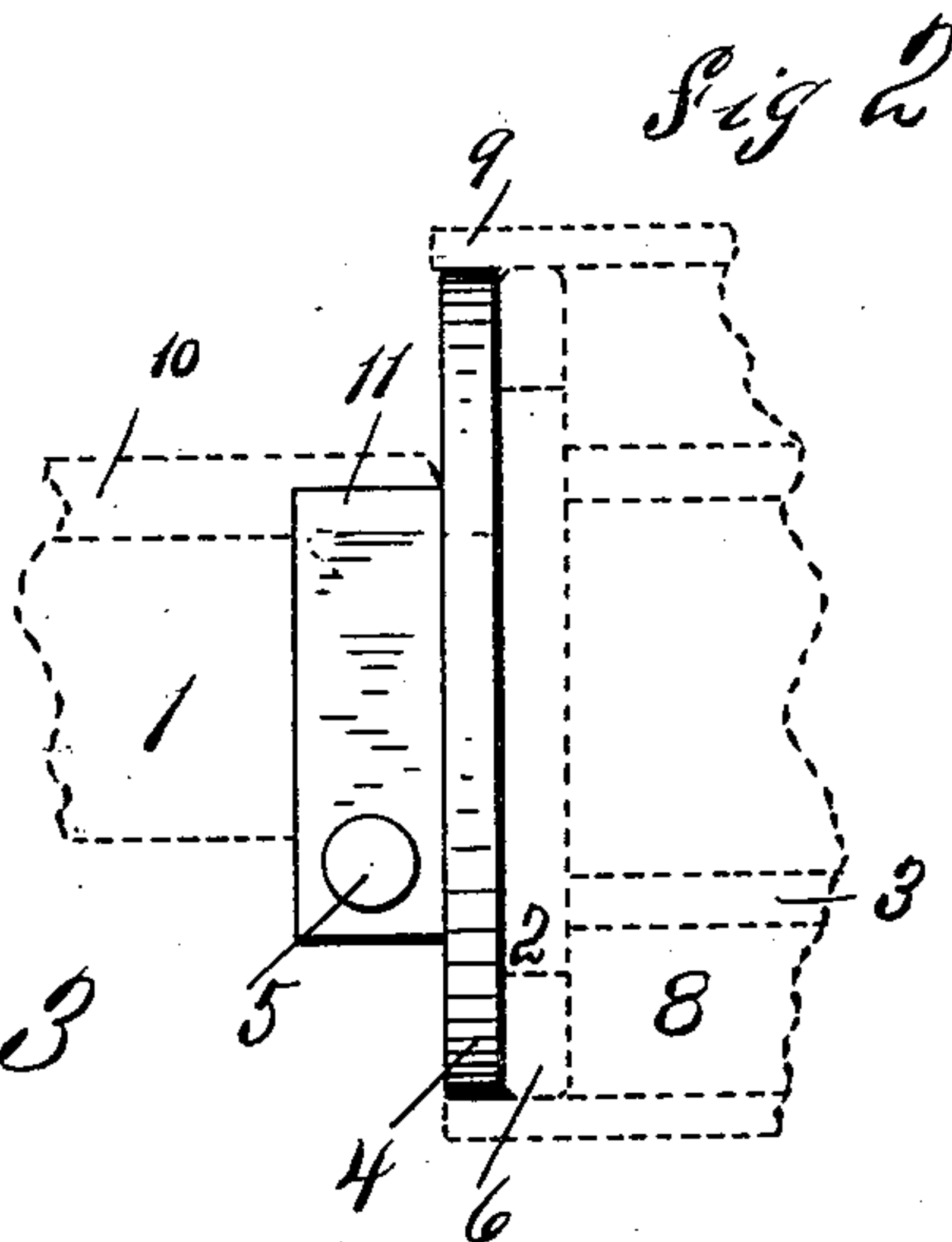
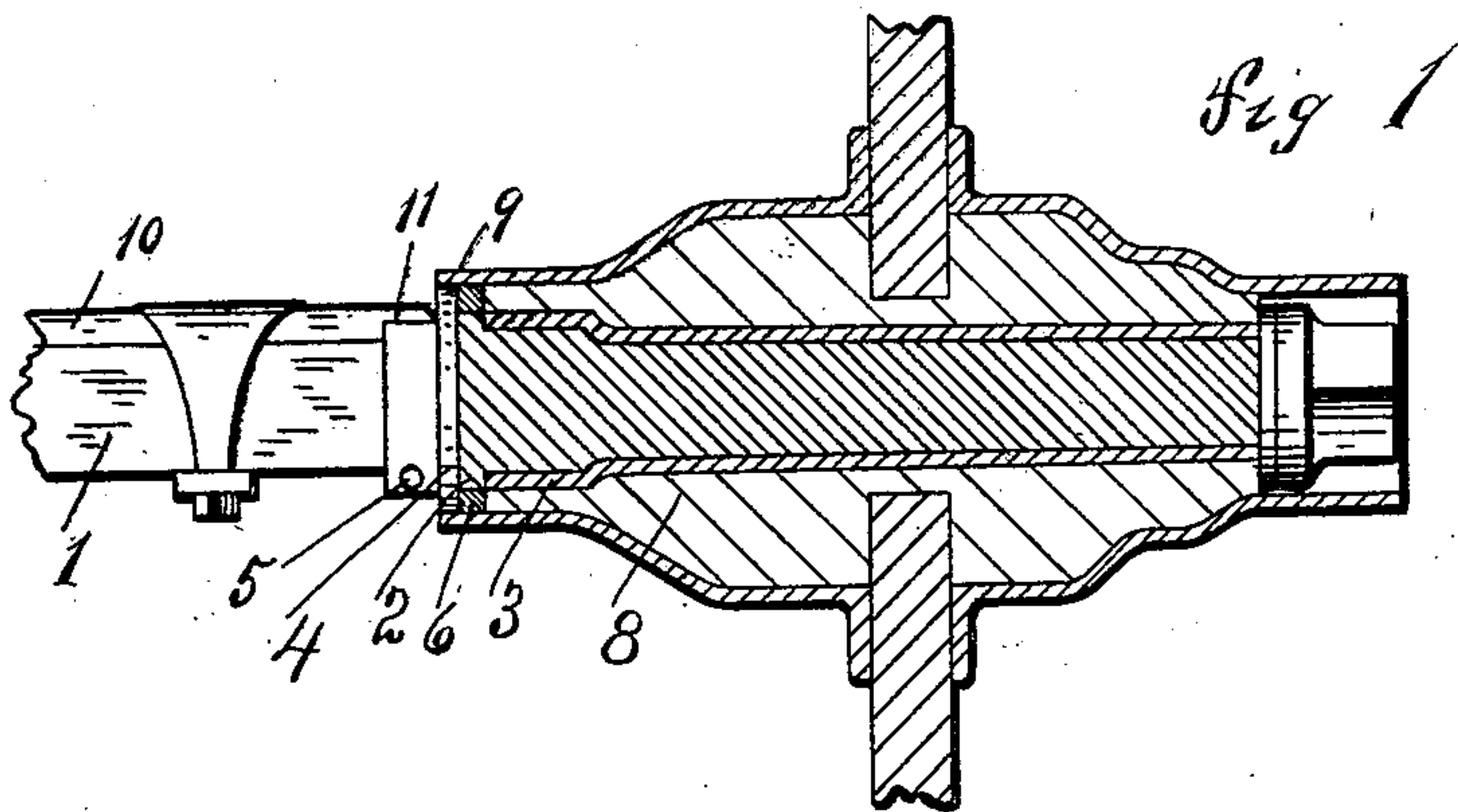


No. 730,929.

PATENTED JUNE 16, 1903.

N. KUTZ.  
DUST GUARD FOR VEHICLES.  
APPLICATION FILED APR. 2, 1903.

NO MODEL.



Witnesses  
Edward Nelson  
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# UNITED STATES PATENT OFFICE.

NELSON KUTZ, OF BURTON CITY, OHIO.

## DUST-GUARD FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 730,929, dated June 16, 1903.

Application filed April 2, 1903. Serial No. 150,810. (No model.)

*To all whom it may concern:*

Be it known that I, NELSON KUTZ, a citizen of the United States, residing at Burton City, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Dust-Guards and Washers for Vehicles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a sectional view of the axle and hub and the dust-guard and washer. Fig. 2 is a side elevation showing a portion of the hub, the axle, and the washer-retaining flange. Fig. 3 is a transverse section of the axle, showing side elevation of the dust-guard and washer-retaining flange. Fig. 4 is a detached view of the dust-guard and washer.

The present invention has relation to dust-guards and washers for vehicles; and it consists in the novel arrangement hereinafter described, and particularly pointed out in the claim.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the axle, which is constructed in the ordinary manner and is provided with the usual flange 2, which flange is located so that the inner end of the hub-boxing 3 will come in contact therewith or in contact with the usual washer that may be placed between the outer face of the collar 2 and the inner end of the boxing 3. This particular washer is not shown in the drawings, inasmuch as it forms no particular part of the present invention.

Upon the axle 1 is located the combined dust-guard and washer-retaining flange 4. Said flange when brought into proper adjustment will come against the inner face of the collar 2, and for the purpose of providing for placing said flange upon the axle the lower portion of the flange is cut out, so that the flange can be placed on the axle and brought against the face of the collar 2, as illustrated in Fig. 1.

For the purpose of holding the flange 4 in proper relative position upon the axle the

cross-bolt 5 is provided, which cross-bolt comes under the axle 1, as illustrated in Fig. 3.

In assembling the different parts the washer 6 is placed upon the periphery of the collar 2, as illustrated in Fig. 2, after the flange 4 has been properly connected to the axle, or said washer may be, if desired, placed upon the collar 2 and the flange 4 adjusted.

It will be understood that the washer 6 should be provided with an open center 7, having a diameter corresponding with the diameter of the collar 2, by which arrangement the body of the washer is brought upon the outside of the collar and concentric therewith, so that the inner face of the washer will come in contact with the inner end of the hub 8, as illustrated in Fig. 1, by which arrangement the dust and dirt are prevented from finding their way between the boxing of the hub and the axle 1.

The flange 4 is so formed that its portion coming in contact with the washer 6 can be covered by the hub-band 9.

It will be understood that the ordinary wood cap 10, located upon the axle 1, should be cut out upon its bottom or under side, as illustrated at 11, so as to provide room for that portion of the flange 4 through which the bolt 5 is passed.

It will be understood that the washer 6 should be formed of any suitable pliable material, such as leather or rubber, the rubber of course being of suitable construction for the purpose designed.

In the drawings I have not illustrated the ordinary washer located around the axle and within the boxing. This feature does not pertain to any part of the present invention; but of course it will be understood that in practice the washer should be used. This being common, I did not illustrate it. The washer shown is for the purpose of keeping sand and dirt from entering between the inner end of the boxing and the adjacent end of the axle.

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

The combination of an axle and a hub located thereon, said axle provided with an integral collar, a washer-retaining flange lo-



cated adjacent to the hub-retaining collar,  
means for holding said flange in fixed adjust-  
ment upon the axle, and a washer located  
upon the inner face of its retaining-flange  
5 and around the hub-retaining collar, sub-  
stantially as and for the purpose specified.

In testimony that I claim the above I have

hereunto subscribed my name in the presence  
of two witnesses.

NELSON KUTZ.

Witnesses:

ANNA WENGER,

F. C. STANDER.