

I. FRANCIS.
BARREL HEAD.

APPLICATION FILED SEPT. 17, 1909.

965,803.

Patented July 26, 1910.

Fig. 1.

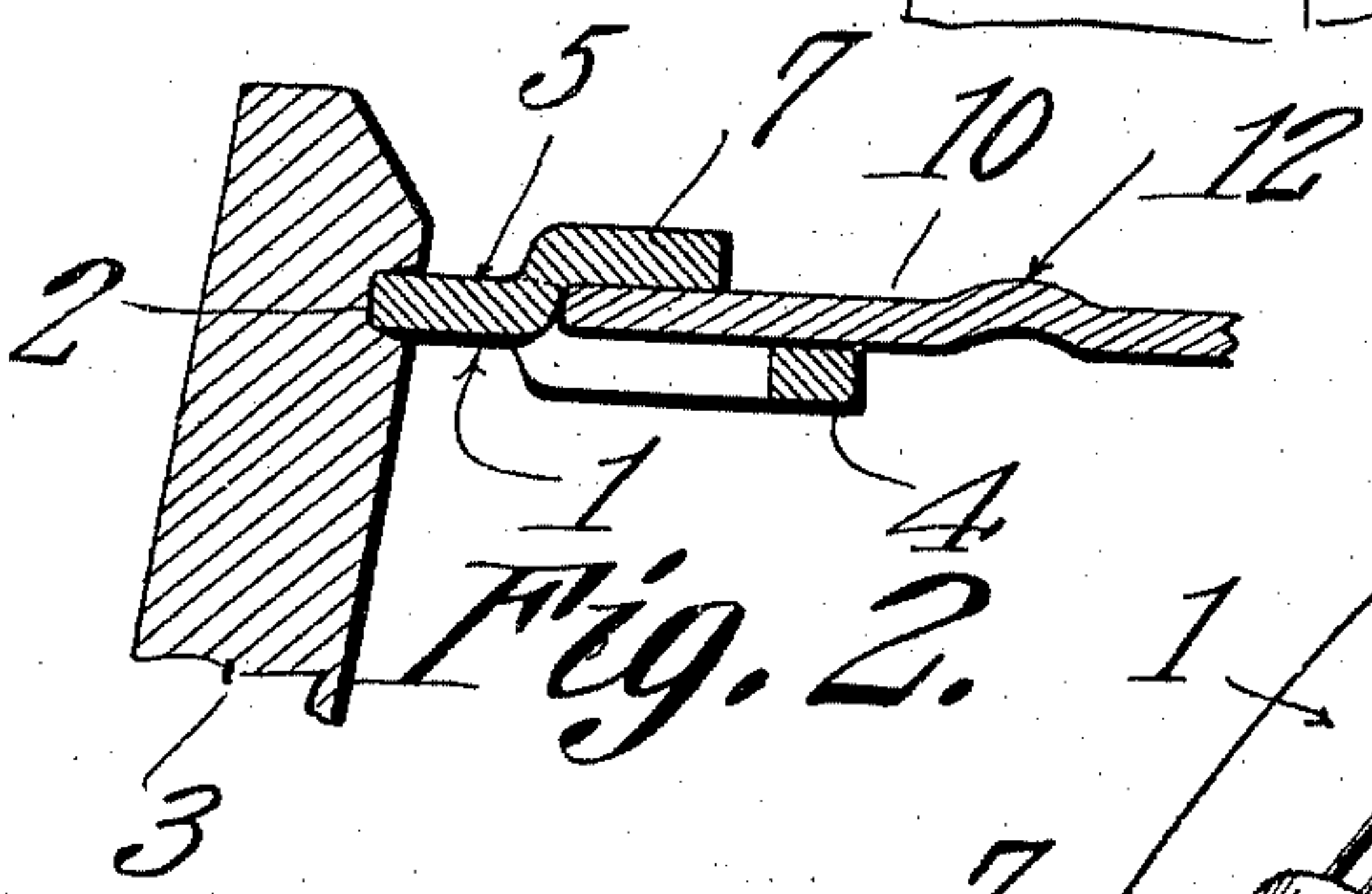
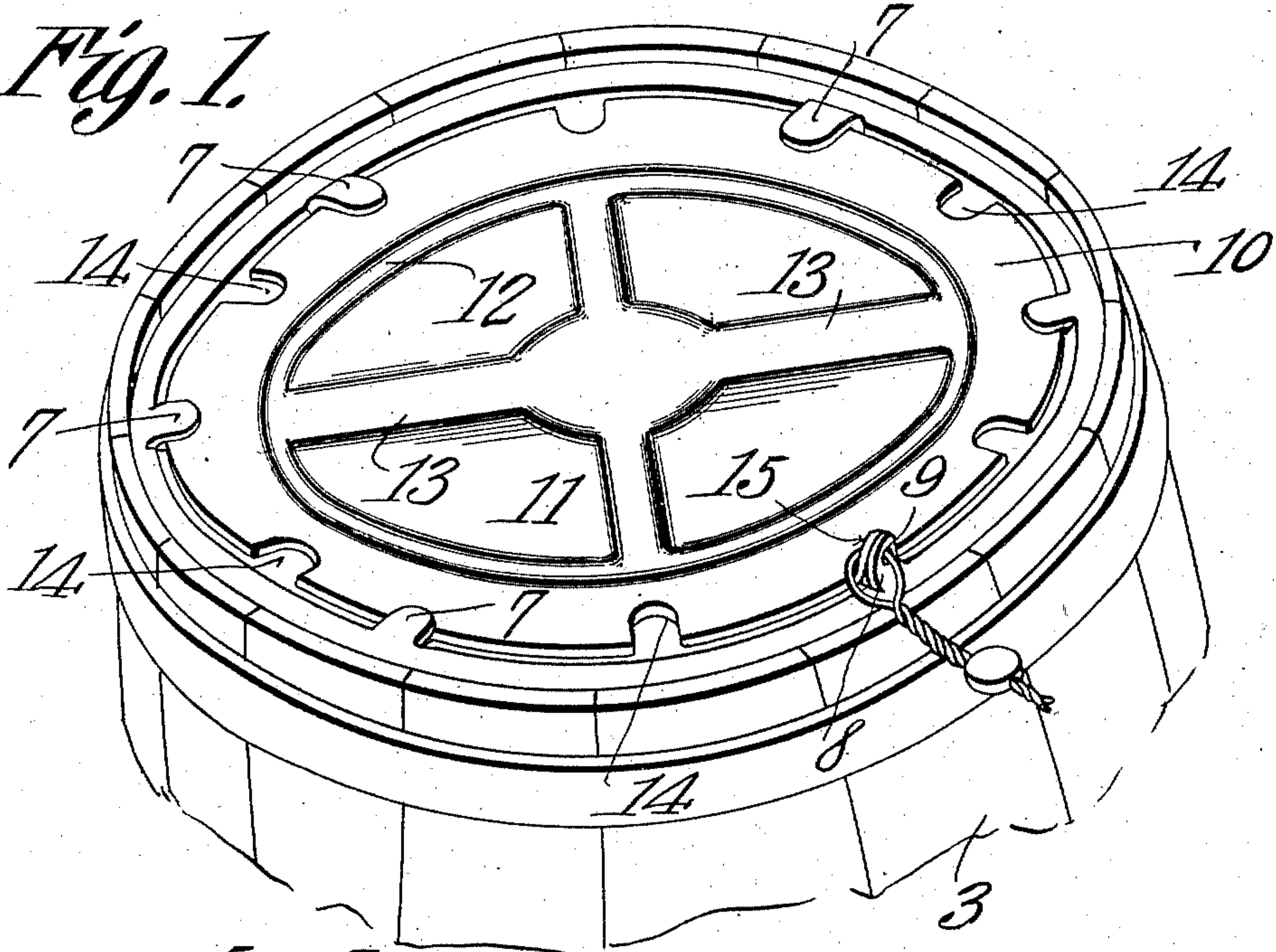


Fig. 2.

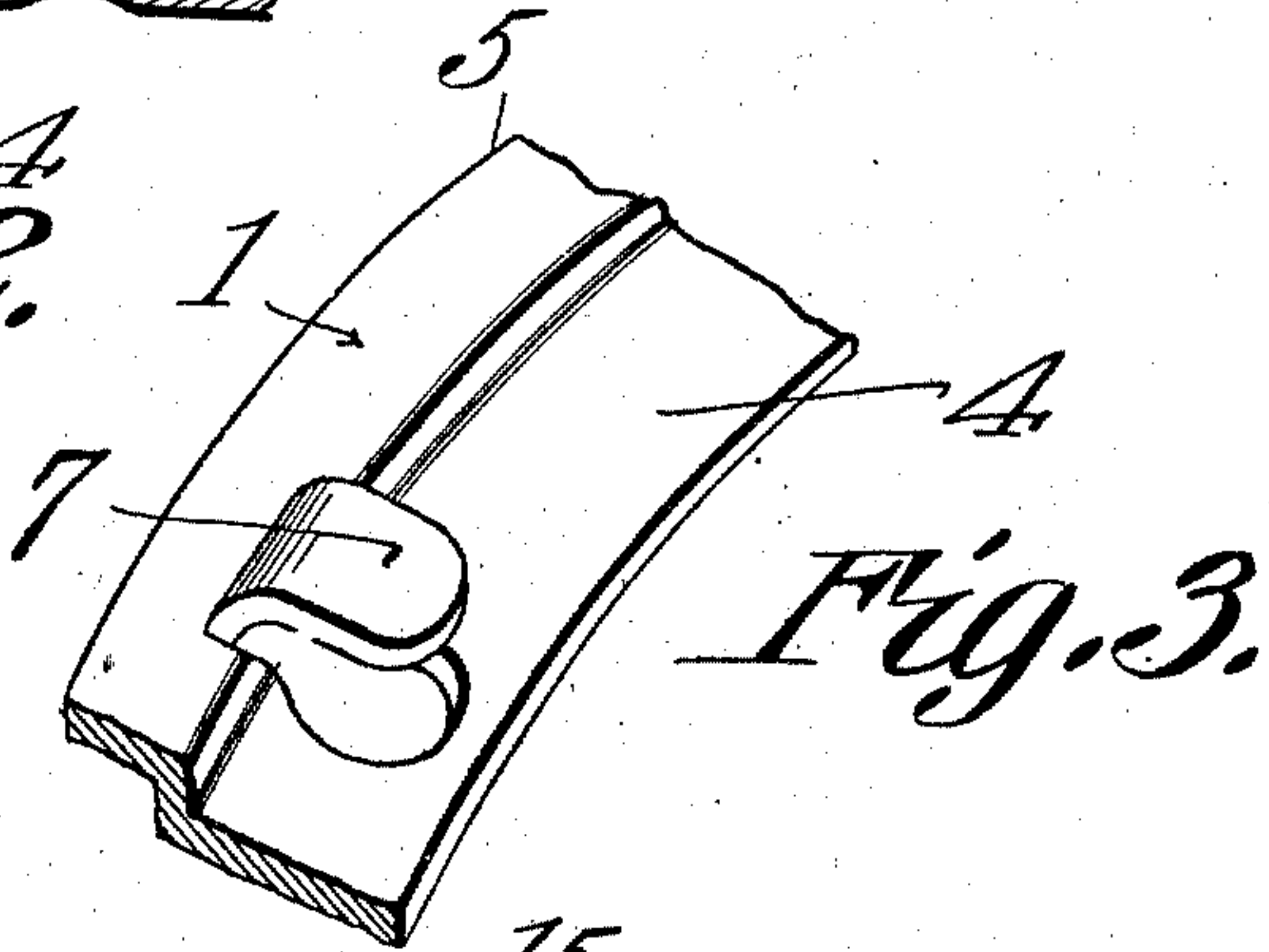
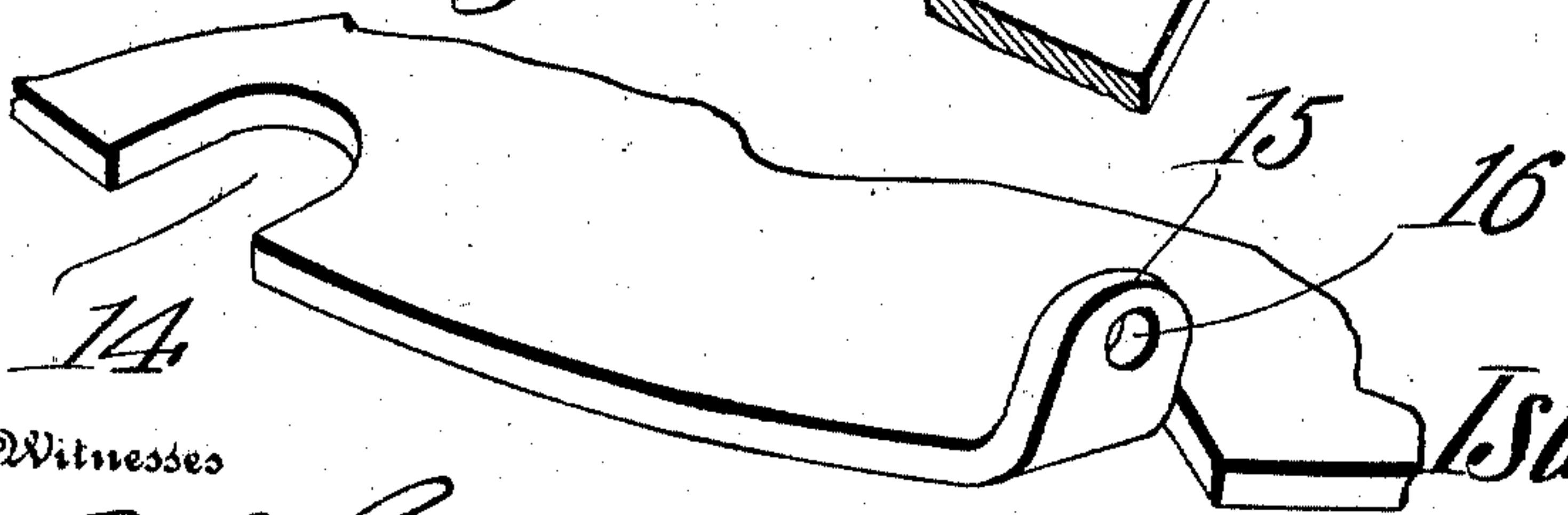


Fig. 3.

Fig. 4.



Witnesses

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BARREL-HEAD.

965,803.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed September 17, 1909. Serial No. 518,240.

To all whom it may concern:

Be it known that I, ISAAC FRANCIS, a citizen of the United States, residing at Fremont, in the county of Dodge and State of Nebraska, have invented a new and useful Barrel-Head, of which the following is a specification.

This invention has relation to barrel heads, and it consists in the novel construction and arrangement of its parts, as hereinafter shown and described.

The object of the invention is to provide a barrel-head which is of simple construction and adapted to be used on barrels which contain bottled or bulk goods.

The device consists, primarily, of an annular ring which is adapted to fit snugly in the croze groove of the barrel. The said ring is formed from sheet metal having inner and outer portions lying in different planes with an intermediate connecting portion at an angle to the said inner and outer portion. At intervals along the inner portion incisions are made and the material within the said incisions is left remaining in the plane of the outer portion, whereby lugs are formed which are spaced from the adjacent surface of the inner portion of the ring. One of the said lugs is provided with an upstanding portion, which occupies a plane disposed at a tangent to the said ring; and the said upstanding portion is perforated. A sheet metal head is provided, which, in turn, is provided with a series of strengthening depressions and corrugations, and which is also provided at its periphery with a series of recesses through which the said lugs may pass when the head is seated in position upon the inner portion of the ring. The head is also provided at its periphery with an upstanding lug which is adapted to abut against the upstanding portion of that lug, which forms a part of the ring, and the upstanding portion on the lug lies in the path of movement of the upstanding portion of the head when the head is turned upon its center as an axis, when it is placed in position upon the ring, as will hereinafter appear.

In the accompanying drawings:—Figure 1 is a perspective view of a barrel with the head applied thereto. Fig. 2 is a sectional view of a portion of the barrel and the head. Fig. 3 is a detail perspective view of a portion of the ring. Fig. 4 is a detail perspective view of a portion of the head proper.

The barrel-head consists of an annular

ring 1, which is adapted to fit snugly within the croze groove 2 of the barrel 3. The ring 1 is formed from sheet metal and has inner and outer portions 4 and 5 respectively, which are joined together by an intermediate portion 6. At intervals throughout the continuity of the portions 4 and 6 lugs 7 are cut out and are permitted to remain in the plane of the portion 5, with the exception of one lug, which is provided with an upstanding portion 8, having a perforation 9. The portion 8 of that lug carrying the same is located in a plane at a tangent to the ring 1.

The head proper 10 is provided at its middle with a depression 11, and in the vicinity of its periphery with an annular corrugation 12. Radially disposed corrugations 13 connect the depression 11 with the corrugation 12. The head proper 10 is formed from sheet metal and is provided at its periphery with a series of recesses 14, which correspond in number with the lugs 7 formed upon the ring 1. The head proper 10 is also provided at its periphery with an upstanding lug 15, which occupies a plane at a tangent to the head proper 10, and which, in turn, is provided with a perforation 16.

When the parts are assembled they occupy the relative positions as shown in Fig. 1 of the drawings, from which it will be seen that the lug 15 abuts against the upstanding portion 8 of the lug 7 carried by the ring 1, and that the bail of a lock or other securing device, indicated at 17, be passed through the perforations 9 and 16 of the said upstanding portion. Thus the head proper 10 is secured in position upon the ring, and the portions of its periphery occurring between the recesses 14 lie under lugs 7 formed upon the said ring 1.

When it is desired that the barrel 3 to which the head is applied should contain a liquid in bulk, a gasket (not shown) may be inserted between the head proper 10 and the inner portion of the ring 1.

Thus it will be seen that a simple and an effective barrel-head structure is provided, and, by reason of the fact that the head proper is provided with the corrugations and depressions stated, the said head proper may be formed from thin sheet metal, and will retain its shape against usual strains and pressure. Also, when it is desired to remove the head proper in order that the in-

terior of the barrel may be gotten at, it is not necessary to mutilate the barrel or the hoops thereon, as the head proper may be removed from the ring, and the barrel may be
5 used again, when the said head proper may be placed in secured position upon the ring 1.

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

10 1. A barrel closure comprising a ring adapted to fit snugly in the croze groove of the barrel, and having an inner portion depressed with relation to and connected with
15 its outer portion, lugs located at the inner edge of the outer portion of the ring and formed from material cut from the inner portion thereof and a head proper adapted to fit against the depressed inner portion of
20 the ring and having at its periphery recesses through which the lugs may pass and with intervening edge portions adapted to pass under the said lugs.

25 2. A barrel closure comprising a ring adapted to fit snugly in the croze groove of the barrel and having an inner portion de-

pressed with relation to and connected with the outer portion, lugs located at the inner edge of the outer portion of the ring and formed from material cut from the inner
30 portion thereof and a head proper adapted to fit against the depressed inner portion of the ring and having at its periphery recesses through which the lugs may pass and with
35 intervening edge portions adapted to pass under the lugs upon the ring, one of the lugs upon the ring having an upstanding extremity, said head proper having at its periphery an upstanding portion, the upstanding
40 extremity upon the ring projecting over the edge of the head proper and into the path of movement of the upstanding portion on the head and adapted to serve as an abutment for the same.

In testimony that I claim the foregoing
45 as my own, I have hereto affixed my signature in the presence of two witnesses.

ISAAC FRANCIS.

Witnesses:

H. BECKMAN,
EDWIN R. PEASE.