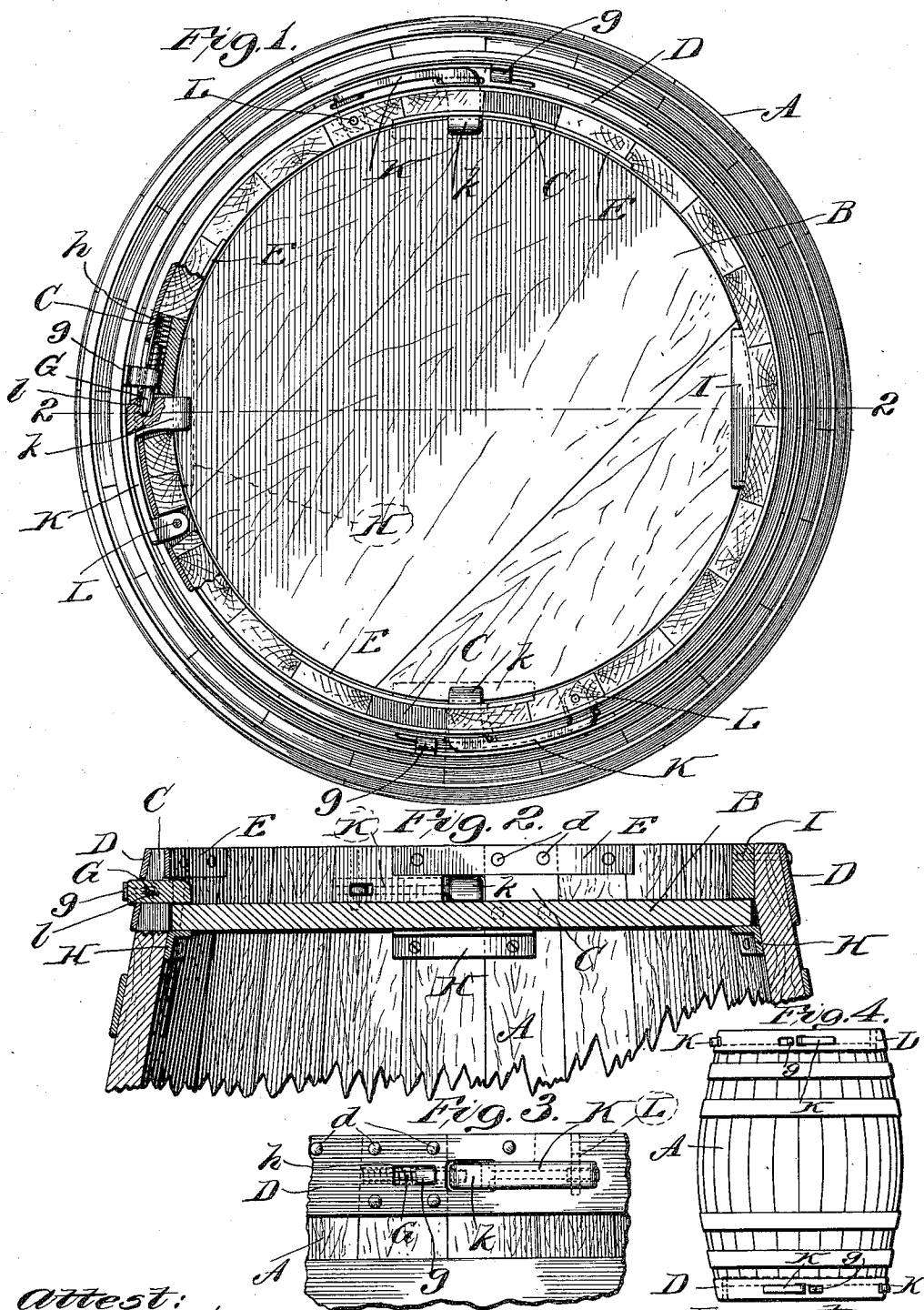


S. BARTMANN.  
 BARREL HEAD FASTENER.  
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1,017,127.

Patented Feb. 13, 1912.



Attest:  
*Wm. H. Scott*  
*Theresa Summ.*

Inventor:  
*Samuel Bartmann,*  
*by John H. Kinsley, atty.*

# UNITED STATES PATENT OFFICE.

SAMUEL BARTMANN, OF ST. LOUIS, MISSOURI.

## BARREL-HEAD FASTENER.

1,017,127.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed April 17, 1911. Serial No. 621,555.

*To all whom it may concern:*

Be it known that I, SAMUEL BARTMANN, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented a new and useful Improvement in Barrel-Head Fasteners, of which the following is a full, clear, and exact specification.

My invention relates to barrels used for shipping fish and other perishable substances which it is necessary or advisable to have packed in ice for shipment.

Heretofore when fish and similar substances were shipped they were put in barrels having ice at the bottom and at the top, so that the fish were between two layers of ice, but when the distance they were shipped was long the ice in the barrels melted and it became necessary to put in new ice, to re-ice the barrels. To do this it was customary to remove one head of the barrel and put ice on top of the fish and then rehead the barrel, but as it was difficult to remove both heads of the barrel ice was put in the barrel at one end only when the barrel was re-iced. The result was that in many cases the fish at the bottom of the barrel were spoiled or in an unwholesome condition when the barrel arrived at its destination.

The object of my invention is to provide a barrel head fastener for a barrel which has one or both heads removable, so that the heads will be held securely in place and yet will be easily removed so as to allow ice to be put into the barrel at each end.

My invention is clearly shown in the accompanying drawings where similar letters are used to designate similar parts.

Figure 1 is a view looking at one end of a barrel, having the upper ends of some staves removed so as to show the details of some parts; Fig. 2 is a vertical section of one end of a barrel along the line 2—2 of Fig. 1; Fig. 3 is a view of certain details; and Fig. 4 is a view of a complete barrel drawn to a small scale.

Referring to the figures, A represents the staves forming the sides of the barrel, B represents the removable heads, and C represents a casting inserted in one of the staves and held in place by the end hoop D and a strip E which is placed inside of the staves and held in place by the bolts *d*. The casting C is provided with a slidable bolt G having a head *g* which projects through and is movable in an opening cut in the hoop D.

*h* is a spring inside of the casting C which engages with the bolt G in such a way as to tend to hold it in a certain fixed position.

H is a rest placed inside of the barrel to support the head B against falling into the barrel, and I is a casting placed at the end of the barrel over one of the rests H. At each end of the barrel, in my preferred construction, there are four of the rests H and one casting I and three castings C.

K is a dog pivoted at one end on the vertical pin L so as to be movable in a horizontal plane. This dog is provided with a head *k* projecting inwardly through the staves and having a hole *l* adapted to receive the end of the bolt G. At each end of the barrel, in my preferred construction, I place three of the dogs K. The rests H are held in place by means of screws or other suitable fastenings, and I prefer to place one under each of the dogs K and one under the casting I. The heads B are preferably arranged inside of the staves, as shown, so that the ends of the staves project beyond the heads and thus protect the heads and the means by which the heads are held in place.

Both heads of the barrels are the same and both are held in place in the same way by means of the rests H and the dogs K. When it is desired to put a head in place the bolt G is pressed to one side so as to withdraw its end from the hole *l* in the head *k* of the dog K, and then the dog K is swung about the pin L until the head *k* lies outside of the barrel. Each dog is released in this way and then the head is put down so that one edge can be slid below the casting I. Then the bolts G are pressed back and the dogs K are swung so that the heads *k* will pass through the openings made for them in the staves and project inside thereof over the head, then the bolt G is released and its end engages with the hole *l*, thus holding the dog in place. The head of the barrel is thus held between the dogs and the rests. After one head is in place the barrel is turned so that this head will be at the bottom and ice is placed in the barrel. On top of this ice there is placed the fish, or other substance to be shipped, until the barrel is about three quarters full; then ice is placed on top of the fish; and then the upper head is put in place. When it is desired to re-ice a barrel the top head is removed and sufficient ice is placed in the barrel to fill about

half the space between the fish in the barrel and the head; then the barrel is turned so that the lower end can be removed and after ice is placed in the barrel at this end the  
5 second head is put in place. The water resulting from the melting of the ice leaks out through the cracks and spaces between the lower head and the staves and runs away.

10 It is evident that the barrel may be of any shape or size, and the heads may be made of any number of pieces fastened together by gluing or any other proper means.

What I claim as new and desire to secure  
15 by Letters Patent, is:

1. In a barrel, means for preventing the head thereof from falling out, said means comprising a dog pivotally mounted on the staves of said barrel and having the head

adapted to project inwardly from said 20 staves, and means for holding said dog in engaging position, substantially as described.

2. In a barrel, means for preventing the head thereof from falling out, said means 25 comprising a dog pivotally mounted on the staves of said barrel and having a head adapted to project inwardly from said staves, and a slidable bolt adapted to engage said dog, substantially as described. 30

In testimony whereof I have signed my name to this specification in the presence of two witnesses.

SAMUEL BARTMANN.

Witnesses:

HAZEL COHN,  
THERESA SUEME.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."