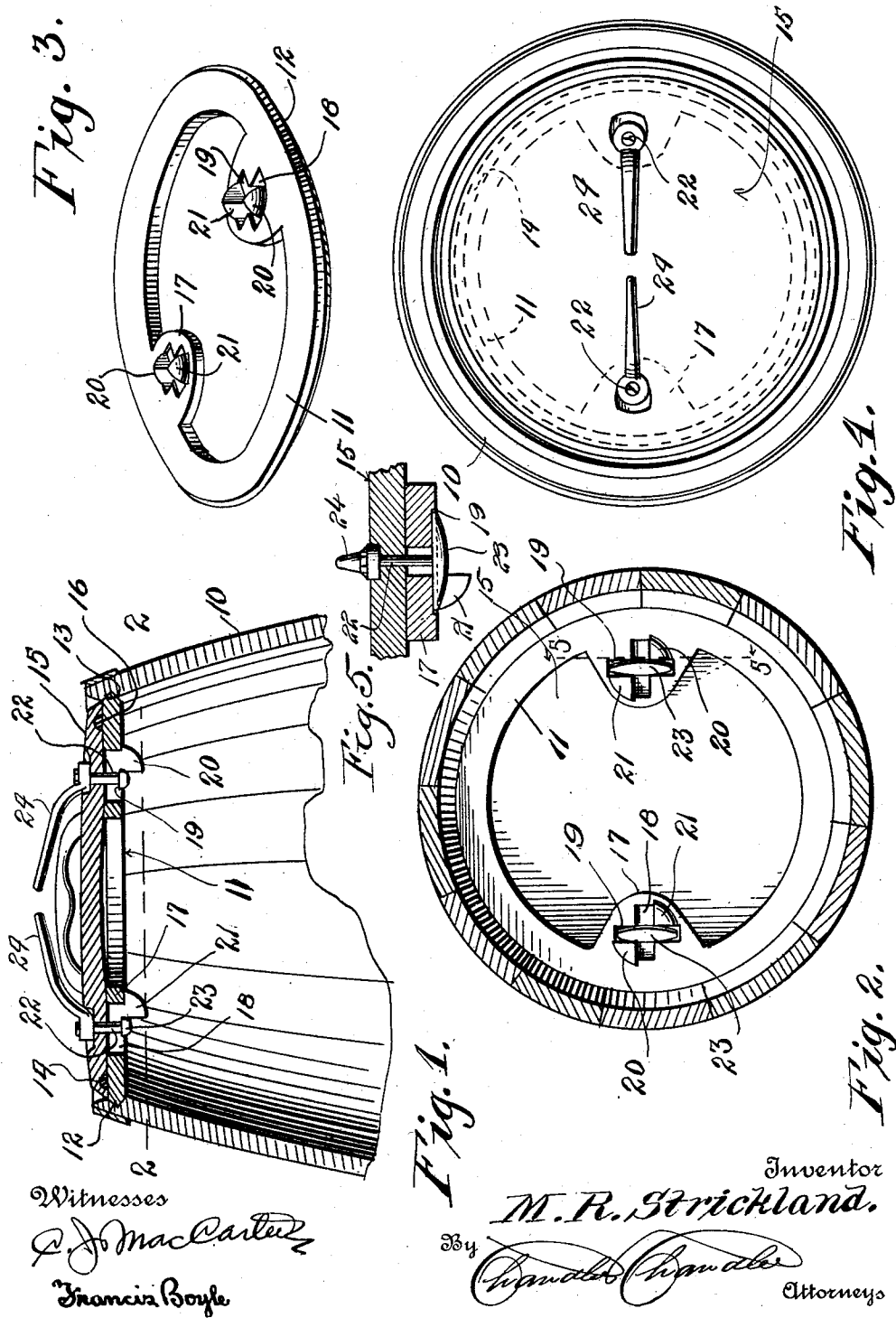


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BARREL HEAD AND RIM.

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1,114,309.

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UNITED STATES PATENT OFFICE.

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BARREL HEAD AND RIM.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MATHEW R. STRICKLAND, a citizen of the United States, residing at Perry, in the county of Taylor, State of Florida, have invented certain new and useful Improvements in Barrel Heads and Rims; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to barrel heads and rims and has for an object to provide a barrel head including an annular rim which is rigidly secured to the staves, and a disk head which is removably secured to the rim and may be easily and quickly removed or applied.

A further object is to provide novel means for locking the disk head to the annular rim so that a substantially liquid and gas-tight joint between the parts will be produced.

With the above objects in view the invention consists of certain novel details of construction and combination of parts hereinafter fully described and claimed, it being understood that various modifications may be made in the minor details of construction within the scope of the appended claim.

In the accompanying drawing illustrating this invention: Figure 1 is a fragmentary sectional view through a barrel equipped with my improved head. Fig. 2 is a cross section on the line 2—2 Fig. 1. Fig. 3 is an underneath perspective view of the annular rim. Fig. 4 is a plan of the parts shown in Fig. 1. Fig. 5 is a section on the line 5—5 of Fig. 2.

Referring now to the drawing in which like characters of reference designate similar parts, 10 designates a barrel. The head comprising the subject-matter of this invention comprises an annular rim 11 having a beveled periphery 12 to snugly fit in the circular groove 13 formed in the stave. The rim is provided on the top face with an annular packing ring 14 formed half round as shown and constructed of rubber or other suitable material.

A disk head 15 is provided in the bottom face with an annular groove 16 which receives the packing ring 14 so that when the disk head is clamped to the annular rim as will presently be described, a sub-

stantially liquid-tight and gas-tight joint between the parts is produced. For removably securing the disk head to the annular rim, the latter is provided on the inner periphery with substantially semi-circular extensions 17 in each of which is formed a longitudinal slot 18, the slots of both extensions being in alinement and extending radially relatively to the center of the rim. On each side of each slot is formed a socket 19, the sockets being in alinement, and there being furthermore a lug 20 disposed on the outer side of one of the sockets and a lug 21 disposed on the inner side of the other sockets, these lugs being disposed parallel with each other and lying on the opposite longitudinal sides of the related slot 18.

A pair of stems 22 are turnably mounted in suitable openings in the disk head 15 and project through the slots 18 of the annular rim, each stem being equipped on the inner end with a fixed bar 23 of such length as to pass through the slot, and being equipped on the outer end with a fixed operating lever 24 disposed at a right angle to the bar. When the handle is rotated through an arc of ninety degrees after passage of the bar through the slot, the bar will be turned through an angle of ninety degrees and the ends of the bar will seat in the sockets 19 and be limited against further rotation by engagement at the ends with the lugs 20 and 21. It is obvious that upon such seating of the bars in the socket, the yielding packing ring 14 will be compressed between the disk head and annular rim and will form a tight joint between the parts while also holding the bars seated in the slots against accidental escape.

To remove the disk head it is simply necessary to rotate both handle levers until the bars are disengaged from the sockets and pass into the slots, whereupon the disk head may be lifted bodily from the annular rim to expose the contents of the barrel.

What is claimed, is:—

A barrel head comprising an annular rim having opposite substantially semi-circular projections on the inner periphery, each projection being formed with a radial slot, the slots of both extensions being in alinement, each slot being formed on each side with a socket and with a lug on one side of each socket, said lugs projecting from the bottom face of said rim and being disposed to project from the edges of their respec-

tive sockets with one of said lugs disposed on the outer side of one of the sockets and the other disposed on the inner side of the other socket of each slot, a disk head, stems
5 turnably mounted in said head and projecting through said slots, an operating lever on the outer end of each stem, and a bar on the inner end of each stem disposed at a right angle to the corresponding lever and
10 of a size to pass through the related slot, said bar being adapted to seat in the re-

lated sockets and be limited in movement by said lugs upon rotation of said stem and serving to tightly clamp said head to said rim.

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In testimony whereof, I affix my signature, in the presence of two witnesses.

MATHEW R. STRICKLAND.

Witnesses:

D. F. BLANTON,
W. L. WEAVER.

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