J. O. ELLINGER.

BARREL.

APPLICATION FILED SEPT. 10, 1913.

1,197,922. Patented Sept. 12, 1916.

Fig. 1.

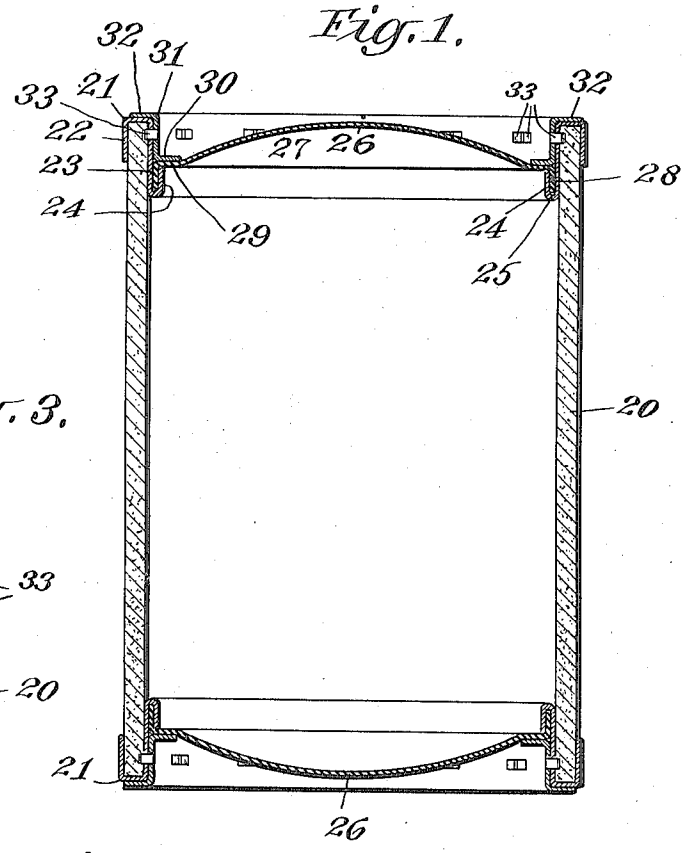


Fig. 3.

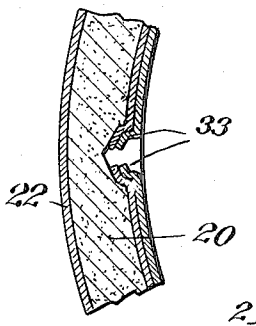


Fig. 2

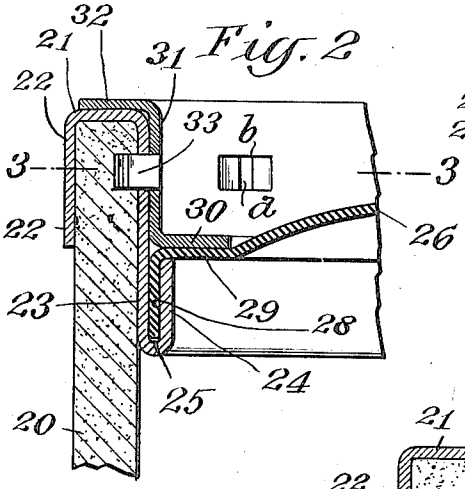


Fig. 4.

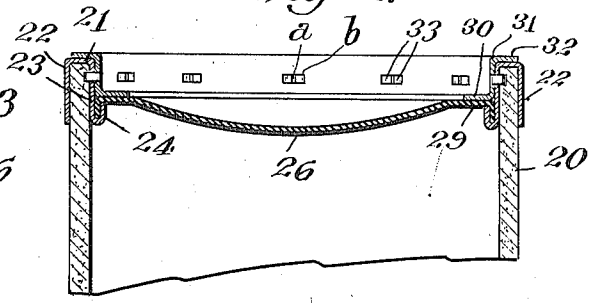
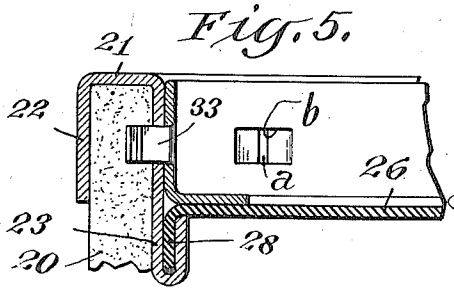


Fig. 5.



WITNESSES

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BARREL.

1,197,922. Specification of Letters Patent. Patented Sept. 12, 1916.

Application filed September 10, 1913. Serial No. 789,021.

To all whom it may concern:

Be it known that I, JULIAN O. ELLINGER, a citizen of the United States, and a resident of the borough of Manhattan, city and State of New York, have invented certain new and useful Improvements in Barrels, of which the following is a specification.

This invention relates to improvements in barrels or kegs and one of the principal objects of the invention is to provide means for securing a head in a barrel or keg in such manner that said head may be securely held in place when the barrel is subjected to rough usage in handling, and so that the head may be readily removed.

Other objects will appear from the hereinafter description.

The invention will be understood from the following description taken in connection with the accompanying drawing in which:

Figure 1 is a longitudinal vertical section of one embodiment of the invention. Fig. 2 is a fragmentary sectional view on an enlarged scale. Fig. 3 is a fragmentary sectional view on line 3 of Fig. 2. Fig. 4 is a sectional view of one end of the keg showing a slight modification. Fig. 5 is a fragmentary view showing another modification.

The part marked 20 on the drawing represents the body of the barrel or keg which is preferably made of a paper cylinder, although it may be made of any other suitable material. Fitting over the end of the cylinder is an annular ring 21, preferably made of metal and formed with two walls 22 and 23 with a space between into which fits the end of the cylinder. The inner edge 24 of the wall 23 is upturned to form an annular groove or channel 25. 26 is the head which is preferably made of sheet metal and provided with the radiating ribs or corrugations 27. The periphery of the head is turned or bent to form the annular flange 28 which fits into the annular groove 25. The head 26 is preferably dished outwardly, as shown in Fig. 1, although it may be dished inwardly, as shown in Fig. 4, or it may be straight as shown in Fig. 5. The edge of the head is preferably provided with the annular flat part 29 against which rests the inturned flange 30 formed on the inner or securing ring 31, which may be provided with an outturned flange 32 which rests against the outer edge of the ring 21.

To securely hold the two rings in place on the body of the barrel there are formed the locking fingers or tongues 33. These tongues are pressed out of the rings 21 and 31 by a suitable punch which splits the metal vertically at *a* and longitudinally at *b*, and expands it to the position shown in Fig. 3 so that the tongues are secured to the rings longitudinally of the cylinder. This construction of fastening is such that the head is securely held in position in extremely rough handling.

In Fig. 5 I have shown a slight modification in that the outturned flange 32 of the inner ring 31 is dispensed with.

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

1. In a barrel or keg, a cylinder, a ring secured on and embracing an edge of the cylinder, said ring having an inner and an outer wall with an annular space between, into which fits an edge of the cylinder, the inner wall being provided with an upturned flange to form an annular channel, a head provided with a flange on the periphery thereof fitting in said channel, an annular ring inside of the first ring and provided with a flange fitting over the edge of the head, and means for securing the two rings to the cylinder.

2. In a barrel or keg, a cylinder, a ring formed with an inner and an outer wall with a space between into which fits an edge of the cylinder, the inner wall of said ring being upturned to form an annular channel, a head provided with a flange which fits in said channel, the periphery of the head being provided with an annular flat surface, a ring fitting inside of the first mentioned ring and provided with an inturned flange which fits on said flat surface of the head, and means for securing the two rings to the body of the cylinder.

3. In a barrel or keg, a cylinder, a ring formed with an inner and an outer wall with a space between into which fits an edge of the cylinder, the inner wall of said ring being upturned to form an annular channel, a dish-shaped head provided with a flange which fits in said channel, the periphery of the head being provided with an annular flat surface, a ring fitting inside of the first mentioned ring and provided with an inturned flange which fits on said flat surface

of the head, and means for securing the two rings to the body of the cylinder.

4. In a barrel or keg, a cylinder, a ring formed with an inner and an outer wall with a space between into which fits an edge of the cylinder, the inner wall of said ring being upturned to form an annular channel, an outwardly dished head provided with a flange which fits in said channel, the periphery of the head being provided with an annular flat surface, a ring fitting inside of the first mentioned ring and provided with an inturned flange which fits on said flat surface of the head, and means for securing the two rings to the body of the cylinder.

5. In a barrel or keg, a cylinder, a ring secured to the edge of the cylinder, the outer edge of said ring being turned to form an annular channel into which fits an edge of the cylinder and the inner edge of said ring being upturned to form a channel, a head having a flange fitting in the latter channel, a ring inside of the first mentioned ring and provided with an inturned flange fitting on said head, and means for securing the rings to the body of the barrel consisting of tongues punched from said rings and extending into the body of the barrel around the circumference thereof.

In witness whereof I have hereunto set my hand at the borough of Manhattan, city and State of New York, this 27th day of August, 1913.

JULIAN O. ELLINGER.

In presence of—
ISABEL R. RICHARDS,
FRANK EUFEWIA.