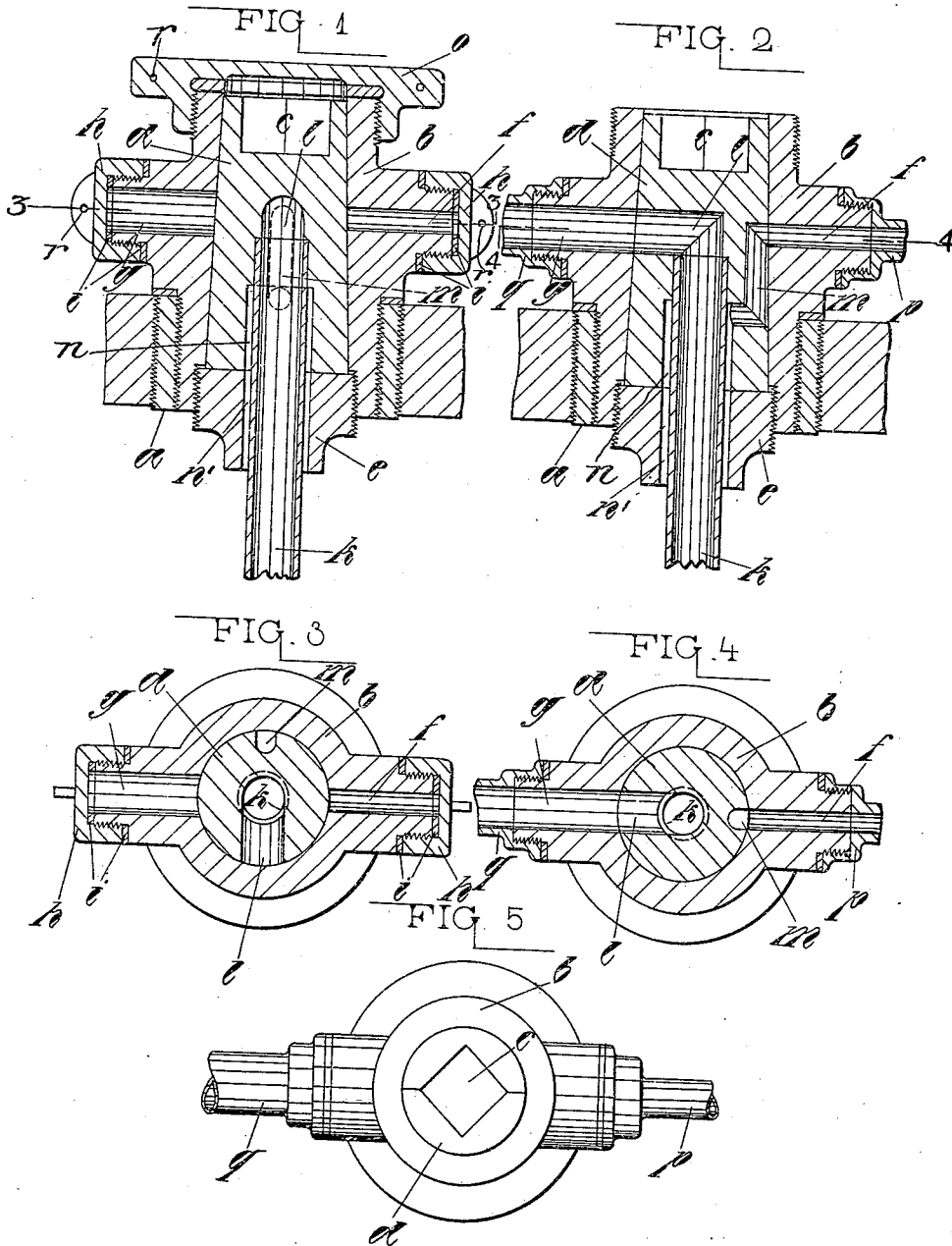


O. JAHR.
BARREL FILLING OR TAPPING DEVICE.
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958,403.

Patented May 17, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

OTTO JAHR, OF UNTERMHAUS, NEAR GERA-REUSS, GERMANY.

BARREL FILLING OR TAPPING DEVICE.

958,403.

Specification of Letters Patent.

Patented May 17, 1910.

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To all whom it may concern:

Be it known that I, OTTO JAHR, a citizen of Germany, residing at Untermhaus, near Gera-Reuss, Germany, have invented new and useful Improvements in Barrel Filling or Tapping Devices, of which the following is a specification.

This invention relates to an improved device for filling or tapping barrels, kegs and similar vessels, which is more particularly adapted for charging said vessels with liquids containing carbonic acid gas, and for subsequently tapping such liquids.

In the accompanying drawing: Figure 1 is a longitudinal section through a device embodying my invention; Fig. 2 a similar section showing the parts in a different position; Fig. 3 a cross section on line 3—3, Fig. 1; Fig. 4 a cross section on line 4—4, Fig. 2, and Fig. 5 a plan of Fig. 2.

Into the bung-hole of a barrel or similar vessel is fitted a bushing *a*, provided with an inner screw thread which is adapted for the reception of a correspondingly threaded casing *b*. The latter contains a conical valve plug *d*, having a squared socket *c*, adapted for the engagement with a suitable key or other tool. Plug *d*, is held against its seat by a ring *e*, tapped into casing *b*, and extending downward beyond bushing *a*. Casing *b*, is provided with a pair of alined ducts *f* and *g*, which may be closed by screw caps *h*, and interposed washers *i*. Duct *g*, is adapted to communicate with a duct *l*, of plug *d*, which opens into a vertical pipe *k*, centered within the plug and terminating near the bottom of the vessel. Duct *f*, is adapted to communicate with an angular duct *m*, of plug *d*, which opens into an annular passage *n*, *n*¹, provided in said plug and ring *e*, respectively.

If it is desired to charge a keg provided with my improved device, caps *h*, are removed and duct *f*, is, by pipe *p*, connected to a suitable compressed air supply, while duct *g*, is, by pipe *q*, connected to the tank or other receptacle containing the liquid to be transferred into the keg, said liquid be-

ing subjected to a pressure that slightly exceeds that of the compressed air. Plug *d*, is then turned into the position shown in Fig. 2, whereupon compressed air is admitted into the keg by opening pipe *p*. Pipe *q*, is next opened to permit the liquid to be forced into the keg, thereby expelling the compressed air through pipe *p*. The liquid will thus rise within the keg until it reaches ring *e*, so that such liquid will finally be forced through ducts *n*¹, *n*, *m* and *f*, into pipe *p*, which may be provided with any suitable means for indicating the passage of liquid instead of air. Plug *d*, is now turned into the position shown in Fig. 1, pipes *p* and *q*, are uncoupled and caps *h*, are applied to casing *b*.

In order to prevent tampering with the contents of the keg, a screw cap *o*, may be screwed on the casing, to cover recess *c*. Caps *h*, and *o*, are preferably provided with openings *r*, through which a sealing string (not shown) may be passed.

For emptying the keg, caps *h* and *o*, are removed and a pressure medium is admitted through ducts *f*, *m*, *n* and *n*¹, to discharge the liquid through pipe *k*, and ducts *l*, *g*.

It will be seen that by my invention carbonated liquids may be conveniently transferred from one receptacle to another without decarbonation or foaming, so that waste of liquid and gas is effectively prevented.

I claim:

A device of the character described, comprising a valve casing having a liquid duct and a compressed air duct, an inclosed plug, a ring engaging the plug and extending downward beyond the casing, a pipe centered within the plug and adapted to communicate with the liquid duct, and an annular passage formed between said plug and pipe which is adapted to communicate with the air duct.

In testimony whereof I affix my signature.
OTTO JAHR.

In the presence of—
F. STEPHAN,
CHARLES NEUER.