

J. HARTZHEIM.  
Bush for Barrels.

No. 222,587.

Patented Dec. 16, 1879.

Fig: 1

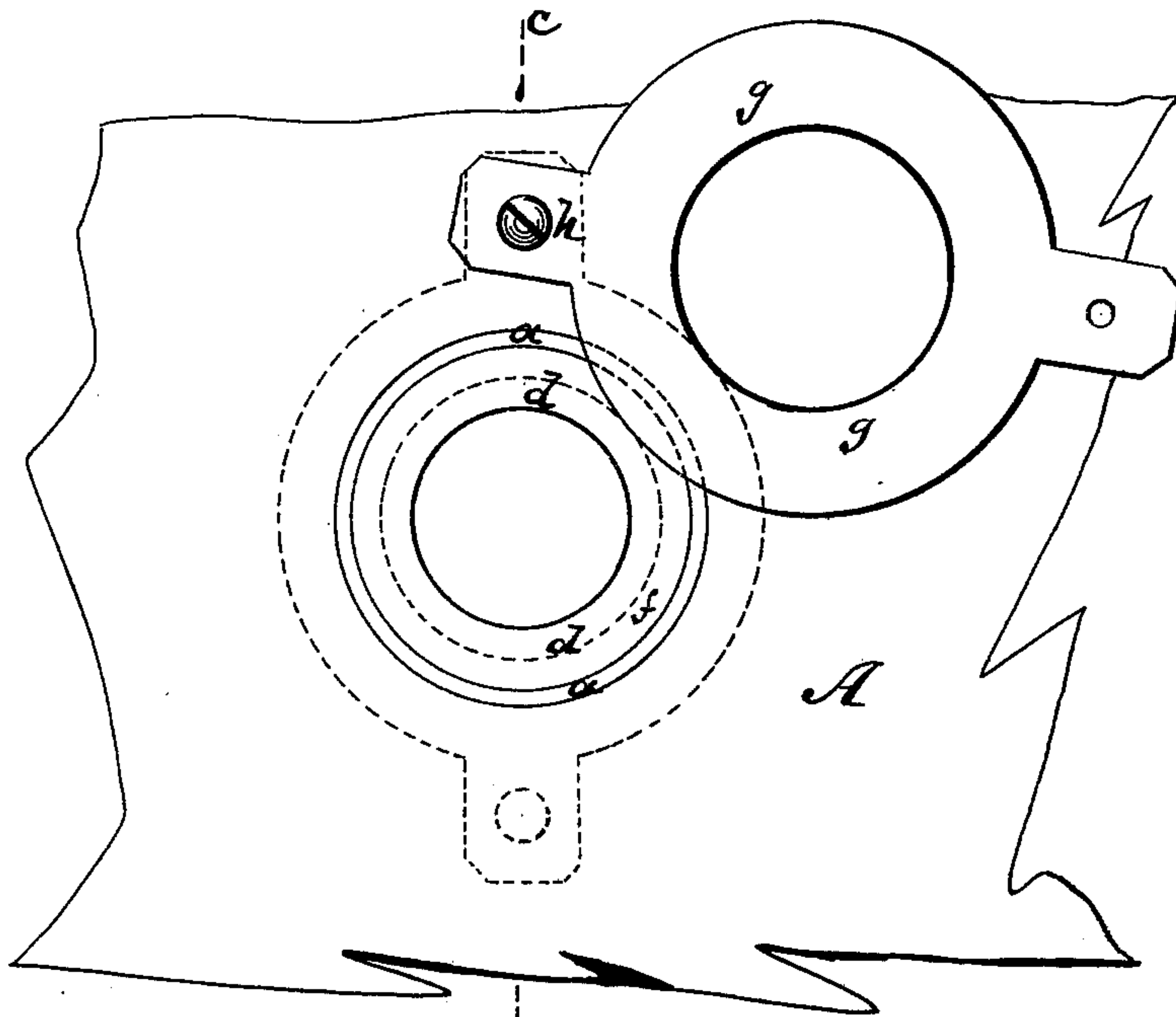
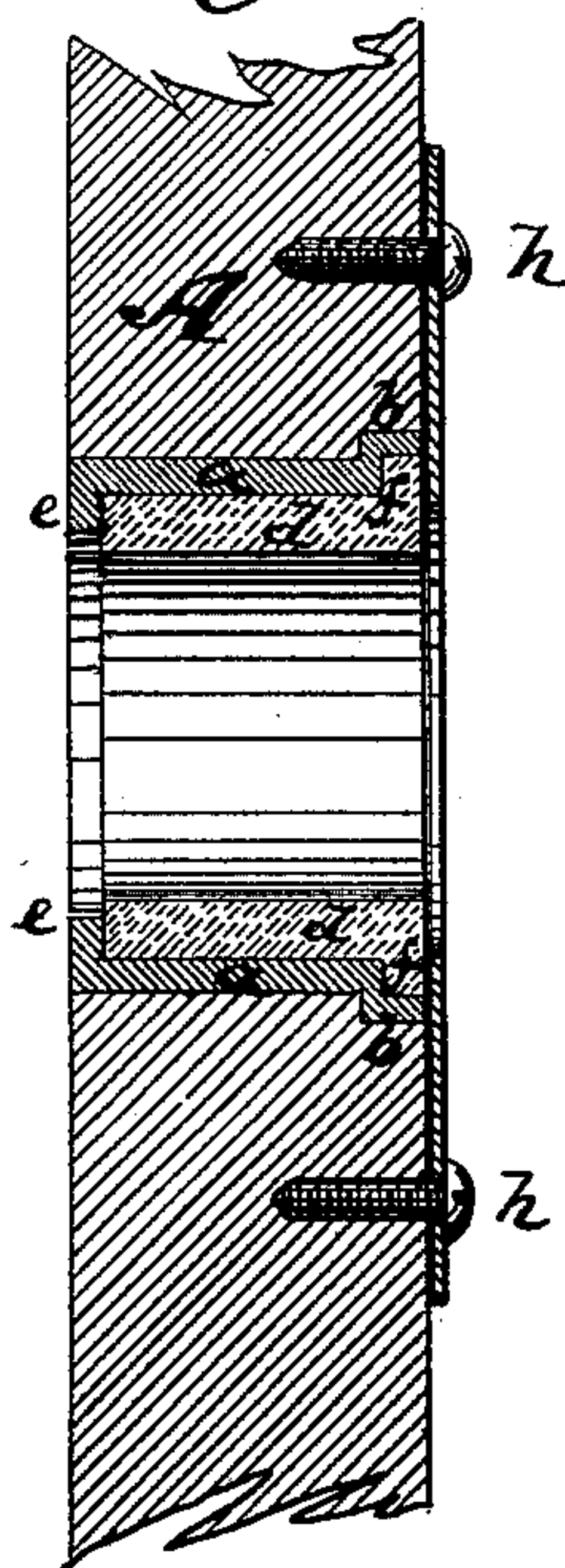


Fig: 2



Witnesses

W. B. Schuttz

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# UNITED STATES PATENT OFFICE.

JOHN HARTZHEIM, OF NEW YORK, N. Y.

## IMPROVEMENT IN BUSHES FOR BARRELS.

Specification forming part of Letters Patent No. 222,587, dated December 16, 1879; application filed June 26, 1879.

*To all whom it may concern:*

Be it known that I, JOHN HARTZHEIM, of New York, in the county and State of New York, have invented a new and Improved Bush for Barrels, of which the following is a specification.

This invention relates to an improved elastic bushing for the tap-holes of beer and other barrels, which will serve as a tight packing between the faucet and the barrel. My improved bushing will also serve as a cushion to prevent the faucet, while being driven into the tap-hole, from transmitting the concussion directly to the barrel.

The invention consists in the combination of a barrel-head with a sleeve or shell, which is contained entirely within the tap-hole, and with an interior elastic lining, which is secured within said sleeve or shell, the sleeve or shell and the lining being provided with a rabbet and a flange, respectively, for securing the lining within the shell.

The invention also consists in the combination of a barrel-head, having its bung-hole lined by an elastic material, with an annular flat cover, which is secured directly to the face of the barrel-head, all as is hereinafter more fully described.

In the accompanying drawings, Figure 1 is a face view of portion of a barrel-head provided with my improvement. Fig. 2 is a section on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts in all the figures.

The letter A represents a barrel-head of a beer or other barrel. Within the tap-hole of this barrel-head is received a cylindrical or slightly-conical sleeve or shell, *a*, made of metal or other material, and of a size to fit the tap-hole. This shell is contained entirely within the tap-hole, and does not project beyond the face of the barrel-head. It is provided at its outer side with an outwardly-projecting flange, *b*, which rests within a corresponding rabbet in the face of the barrel-head. The flange *b* prevents the sleeve *a* from dropping into the barrel.

*d* is a cylindrical or slightly-conical lining,

placed within the sleeve *a*, and made of rubber, cork, or equivalent elastic material. This lining rests with its inner end against an inwardly-projecting flange, *e*, of the sleeve *a*. At its outer end the lining *d* is provided with an outwardly-projecting flange, *f*, which fits into a corresponding rabbet of the sleeve *a*. By this construction the elastic lining *d* is prevented from dropping into the barrel, but may be readily removed from the lining *a* for replacement or repairs.

In order to prevent the sleeve *a* and lining *d* from being withdrawn from the barrel with the faucet, I secure an annular flat cover, *g*, directly to the barrel-head A by means of one or more pins or screws, *h*. This cover may be swung on one of the pins, *h*, on top of or to the side of the tap-hole, by first removing the remaining pin or pins *h*. The cover *g* is intended to constitute a permanent fixture of the barrel, and is made of a thickness to project but little above the face of the barrel-head, so that it will not be apt to be injured during the handling of the barrel.

In the position which is indicated by dotted lines in Fig. 1, the central hole in the cover *g* is in line with the tap-hole, thus allowing the insertion of the faucet for tapping the barrel. At the same time the annular solid portion of the cover bears against the end of the sleeve *a* and lining *d*, and prevents their removal from the barrel. When the sleeve and lining are to be removed, the cover *g* is either swung aside, as indicated by full lines in Fig. 1, or entirely detached.

During transportation of the barrel, the tap-hole may be closed by a suitable plug in the usual manner.

It will be seen that my improved elastic bushing prevents the shock of the strokes by which the faucet is driven into the barrel from being transmitted to the barrel. At the same time it constitutes a tight packing between the barrel and faucet, and may be readily removed when worn.

I claim—

1. The combination of a barrel-head, A, with the sleeve *a*, having a rabbet at its outer end,



and with the inner elastic lining, *d*, having shoulder *f*, the sleeve *a* and lining *d* being contained entirely within the tap-hole of the barrel-head, substantially as herein shown and described.

2. The combination of the barrel-head A, having a rabbet around its bung-hole, with the shell *a*, which is contained entirely within said bung-hole, and has the flanges *e b*, and with the inner elastic lining *d*, which has the flange *f*, substantially as specified.

3. The combination of the barrel-head A, having its bung-hole lined by an elastic material, with the annular flat cover *g*; which is secured directly to the face of the barrel-head, substantially as specified.

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Witnesses:

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