

No. 834,864.

PATENTED OCT. 30, 1906.

L. ANKER.
PACKING OF FILTER PLATES.
APPLICATION FILED SEPT. 7, 1905.

Fig. 1.

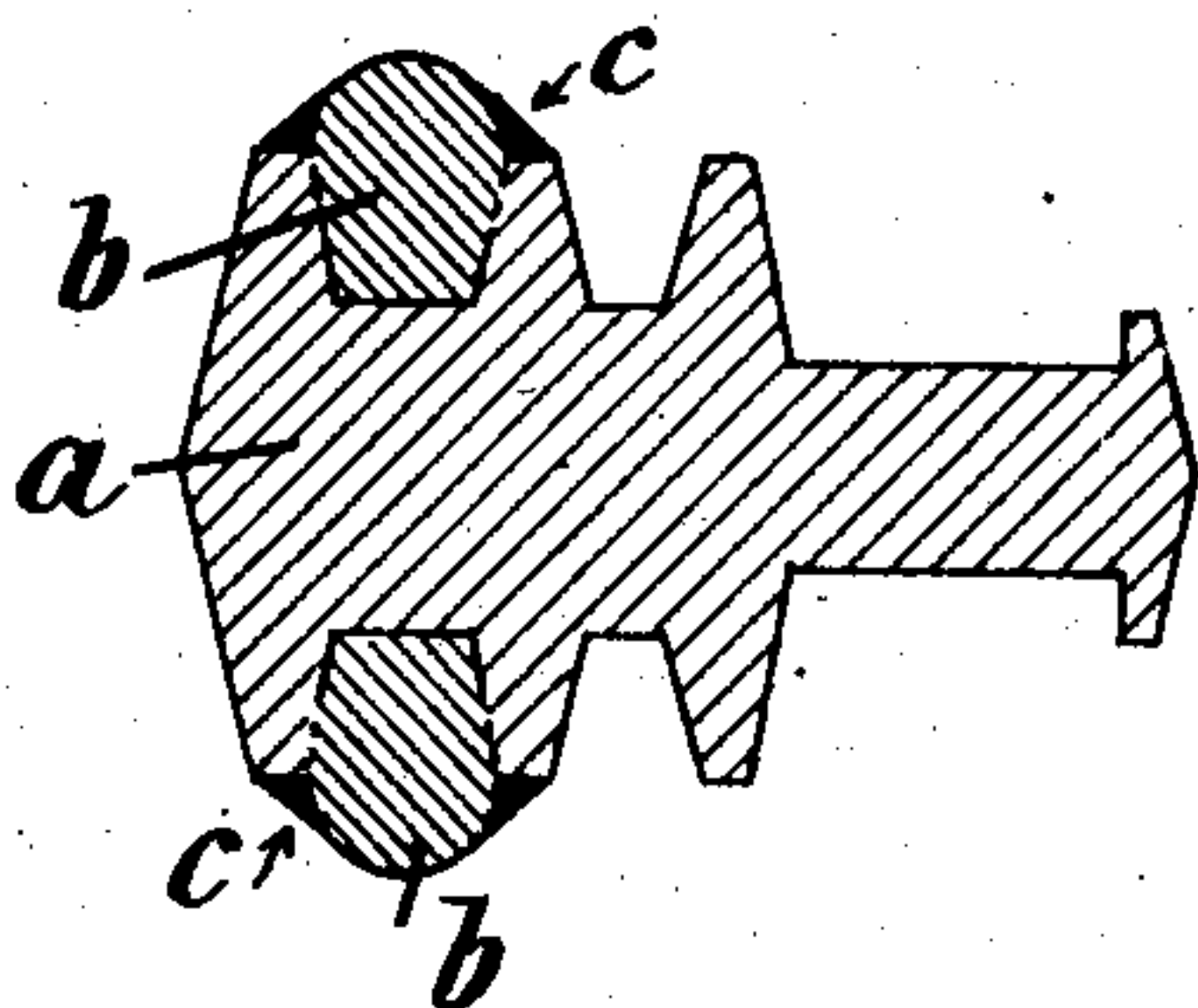
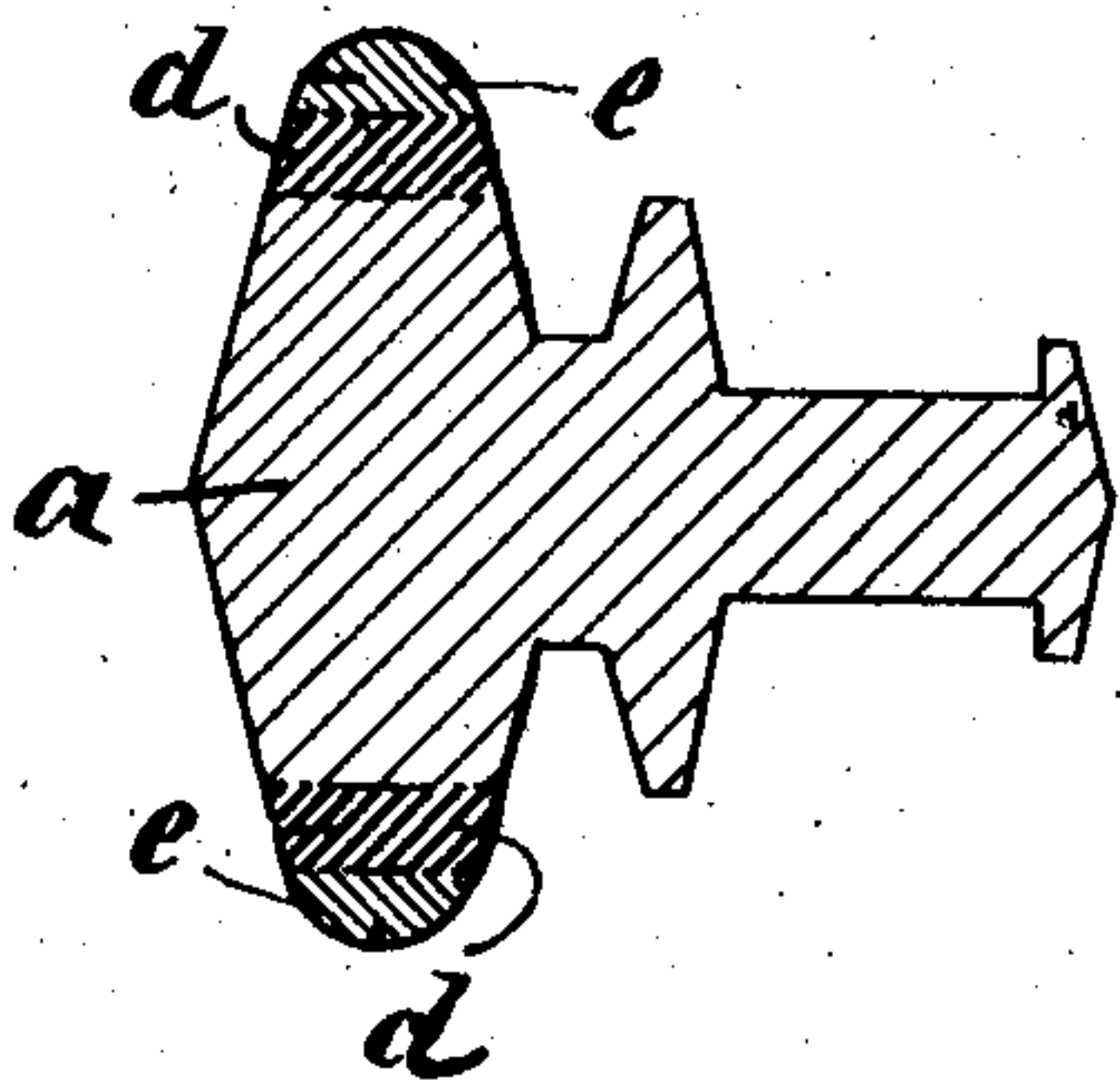


Fig. 2.



WITNESSES

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LOUIS ANKER, OF HAMBURG, GERMANY.

PACKING OF FILTER-PLATES.

No. 834,864.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed September 7, 1905. Serial No. 277,441.

To all whom it may concern:

Be it known that I, LOUIS ANKER, a citizen of Germany, residing at the city of Hamburg, Germany, have invented new and useful Improvements in the Packing of Filter-Plates, of which the following is a specification.

This invention relates to improvements in the packing of filter-plates especially to be used with beer-filters; and the object of the invention is to provide for a jointless packing. I attain this object by a device illustrated on the accompanying drawings, which represent a cross-section of the frame of a filter-plate with my improved packing and a modification of the same.

Figure 1 represents the cross-section of the frame *a* of a common filter-plate. This frame *a* has a notch on either side to receive the packing-ring *b*. This ring is made of any elastic material, but preferably of india-rubber. The edges formed by the projecting packing-ring *b* are supplied with filling-pieces *c*, made of hard rubber or vulcanized caoutchouc. Now these fillers *c* are fixed to both the frame *a* and the packing-ring *b* by vulcanizing, and by this process all parts are so combined that a perfectly-closed connection is produced that will not allow the deposit, adherence, or intruding of any particles retained by the filter.

It is to be understood that the frame of the filter does not form a part of my present invention, and therefore my improved packing arrangement may be changed according to the cross-section of the frame with which it is to be used.

Fig. 2 represents a modified arrangement.

The frame *a* has not any notches, and therefore an intermediate plate *d*, of hard rubber or vulcanized caoutchouc, is placed on either side of the frame, and this plate *d* is to carry the packing-ring *e*, of india-rubber. Now the plate *d* is secured to both the frame *a* and the ring *e* by vulcanizing, and here, too, a perfectly-tight combination is produced.

The great advantage connected with the packing arrangement described above consists in that there are no loose joints, edges, or the like where organic particles might be retained and by gradually fouling might ruin the good qualities of the beer.

Although the arrangement described above is especially adapted to be used with beer-filters, it is to be understood that it may be used, too, for all kinds of filters and, moreover, wherever an air or water tight connection is wanted.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

The combination with the filter-plates, of elastic packing-rings and a vulcanizable medium joining the plates and packing-rings and completely filling the crevices of the joint.

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

LOUIS ANKER.

Witnesses:

E. H. L. MUMMENHOFF,
ALFRED JOSEPH.