

E. J. BLOOM.
PACKING.

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1.038,834.

Patented Sept. 17, 1912.

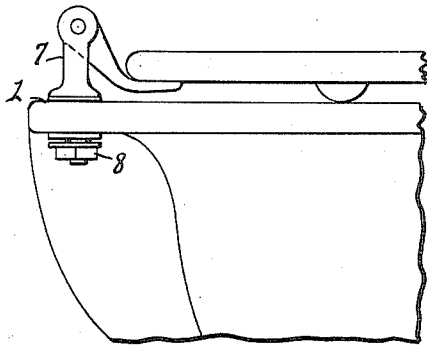


fig. 1.

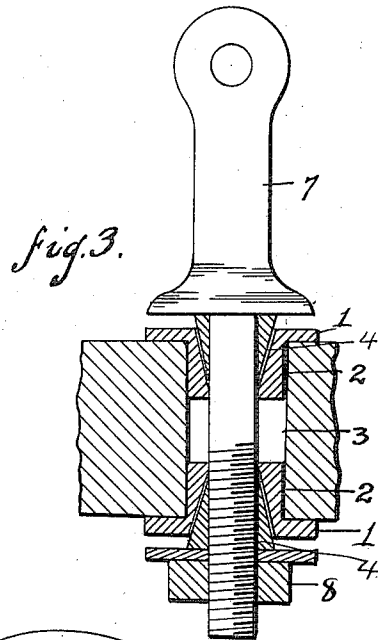


fig. 3.

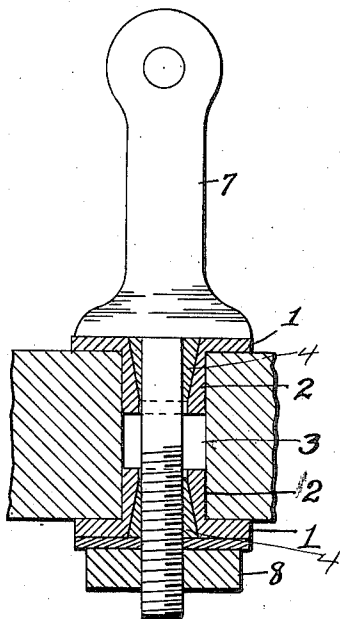


fig. 2.

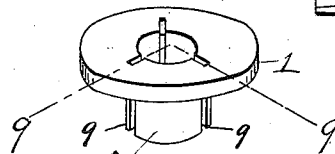


fig. 4.

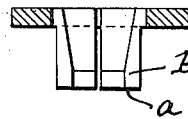


fig. 5.

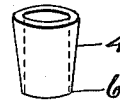


fig. 6.

Witnesses

O. B. Baenziger.

V. C. Spratt.

Inventor

Edgar J. Bloom

By

Parker H. Burton

Attorneys

UNITED STATES PATENT OFFICE.

EDGAR J. BLOOM, OF TIFFIN, OHIO.

PACKING.

1,038,834.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDGAR J. BLOOM, a citizen of the United States, residing at Tiffin, county of Seneca, State of Ohio, have invented a certain new and useful Improvement in Packing, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to packing.

It has for its object an improved packing adapted to hold a bolt securely in the irregular seat attachment holes of an earthenware bowl, for the purpose of securing to the bowl the standard that forms part of the hinge for the seat.

In the drawings:—Figure 1, indicates the location of the parts. Fig. 2, is a sectional elevation showing a pair of packing devices and their relation with the standard after packing devices are expanded. Fig. 3, is a sectional elevation showing devices as in Fig. 2 before the packing devices are expanded. Fig. 4, is a perspective of the packing; Fig. 5, a sectional elevation of the packing; Fig. 6, a perspective of the conical plug used in connection with the packing.

The packing comprises two members of which the outer is made of soft metal, preferably lead, and is made as a disk 1, with a split tubular projection 2 that enters the hole 3 in the earthenware. The split tubular projection 2 is conically bored for a part of its distance on the inside, and is cylindrical or substantially cylindrical on the outside. That end of the tubular projection which is distant from the disk is smaller in its internal bore than the end which is at the disk and at this small end the bore of the tube continues of equal diameter from the end of the conical bore to the end of the tube from *a* to *b*.

A plug 4 conical on its external surface and bored with a cylindrical bore engages in the bore of the outer member. The small end 6 of the plug is of an external diameter to equal the bore of the outer member at the point *b* so that when the plug is forced into the outer member to bring its point 6 beyond the point *b*, the tube is spread; the tube approximately fits the hole in the earthenware; the bore of the plug 4 fits the stem

of the hinge post 7. Two packing devices are inserted in the hole one from above and one from below. The expander plugs 4 are inserted from above and below, the stem of the hinge post is inserted through both plugs and the plugs are drawn in by means of the nut 8 on the stem of the standard 7. The plugs 4 expand the soft metal which is capable of expansion, not only because of its soft character but also because of the splits 9 in the tubular part of the packing, which splits 9 may be any desired number.

What I claim is:—

1. A packing comprising a disk member, a tubular member projecting centrally therefrom, the said tubular member being bored with a conical bore extending partially therethrough and with a cylindrical bore continuing said conical bore and extending through the remaining part thereof, combined with a conical expander member, substantially as described.

2. A bolt and packing therefor, having in combination, a bolt enlarged at one end and threaded at the other end, a pair of split tubes located on said bolt and provided with tapering interiors, the tapering of the tubes being toward each other, two spreading plugs engaging about the bolt and having peripheral portions tapering toward each other, one of the plugs being adjacent the enlarged end of the bolt and engaging the tapered portion of the adjacent split tube and the other plug being adjacent the opposite end of the bolt and engaging the interior tapering portion of the other split tube and a nut adapted to be inserted on the end of the bolt opposite the enlarged end and adapted, when run along the bolt, to draw the spreading plugs toward each other and thereby spread the split tubes, substantially as and for the purposes set forth.

3. A bolt and packing therefor, having in combination, a bolt enlarged at one end and threaded at the other end, a pair of split tubes, each tube provided with an annular flange adapted to seat on the surface of the member through which the bolt is passed, said split tubes being located on said bolt and provided with tapering interiors, the tapering being toward each other, two spreading plugs engaging about the bolt and having their tapering portions tapering toward each other, one of the plugs being adjacent the enlarged end of the bolt and engaging

with the tapering portion of the adjacent split tube and the other plug being adjacent the opposite end of the bolt and engaging the interior tapering portion of the other.
5 split tube and a nut running on the end of the bolt opposite the enlarged end and adapted to be tightened against the annular flange of the adjacent split tube, whereby the spreading plugs are drawn toward each

other and spread the split tubes, thereby, 10 providing a packing for the bolt, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

EDGAR J. BLOOM.

Witnesses:

CHARLES F. BURTON,
VIRGINIA C. SPRATT.