

(No Model.)

H. F. W. BUECKER.

BUNG HOLE REAMER.

No. 266,091.

Patented Oct. 17, 1882.

Fig. 1.

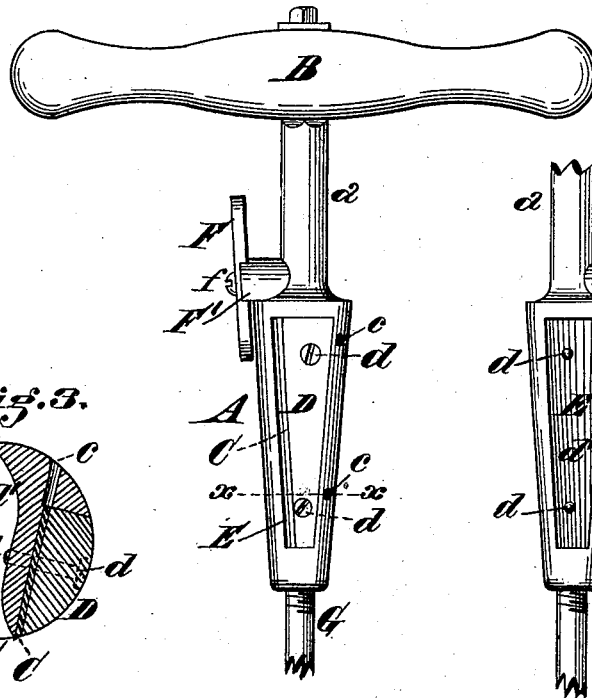


Fig. 2.

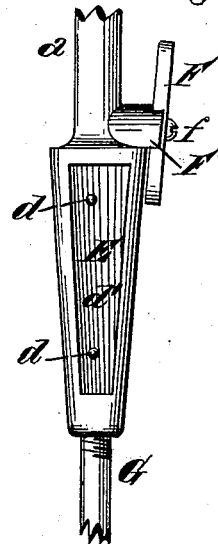


Fig. 3.

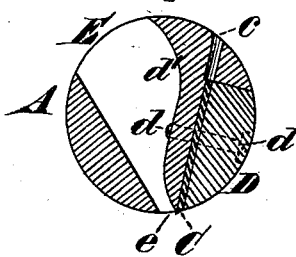
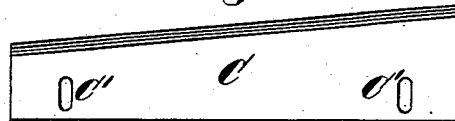


Fig. 4.



Attest

Geo. E. Jones

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by Mark S. Boyd

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UNITED STATES PATENT OFFICE.

HENRY F. W. BUECKER, OF NEWPORT, KENTUCKY.

BUNG-HOLE REAMER.

SPECIFICATION forming part of Letters Patent No. 266,091, dated October 17, 1882.

Application filed July 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. W. BUECKER, a citizen of the United States, and residing in the city of Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Bung-Hole Reamers, of which the following is a specification.

My invention relates to an improvement in bung-hole reamers or cutters.

It consists primarily in constructing the reamer frame or stock integral with the shank upon which the manipulating-handle is secured, and providing a longitudinal opening or slot in the said reamer-frame for clearing the chips from the cutter when in use.

It further consists in the provision of a flat plate knife or cutter, which lies upon a smooth flat face within a recess made in the reamer-stock, and is detachably secured in place by a cap-plate, which fills the recess on top of the cutter, its outer face being made to conform to the periphery of the said stock, screws being passed through suitable holes in said plate, and slots made in the cutter for adjusting the same to suit different depths of cut, the knife being advanced by inserting a pointed instrument of any desired form through openings made in the reamer-frame in a line with and in rear of the back edge of the knife.

In the accompanying drawings, Figure 1 is an elevation of a bung-hole reamer embodying my invention, showing the side in which the cutter is secured. Fig. 2 is a broken similar view of the reverse side of Fig. 1, showing the longitudinal recess or slot for the clearance of chips. Fig. 3 is a cross-section on line *xx*, Fig. 1. Fig. 4 is a plan view of one of the flat faces of the knife, showing the bevel forming the cutting-edge.

A represents the reamer frame or stock, formed integral with the shank *a*, to which the handle B is attached. The stock A is made tapering, as customary.

C is the cutter or knife, which is made preferably of a flat piece of any suitable knife metal, and provided with transversely-cut slots C' C', by which to adjustably secure it in place. Knife C rests upon the floor or face of a recess or longitudinal depression made in the stock

A, and is secured firmly in position by a cap-plate, D, and screws *d d*, which pass through perforation made in the cap-plate D and slots C', tapping into the backing *d'*, which is a part of the metal forming the stock.

o o represent perforations or openings made in stock A, immediately in rear of and in line with the knife C. Through the openings *c* any suitable pointed instrument may be inserted to force the knife outward the limit of the slot C' when the cap-plate D and screws *d d* have been slightly loosened to bring the said knife to the cutting position desired.

E represents a longitudinal recess or slot made in the stock A, whose rear wall, *d*, forms a backing for the knife C. The slot E is broad at one side of the periphery of the stock; but it becomes narrow on the other side, forming a throat, *e*, into which the chips and shavings pass for discharge through the broad opening.

F is a slotted gage, adjustably secured by a screw, *f*, to the recessed boss F' on one side of the reamer A, to determine the size of the bore.

G is an upper end of any suitable auger, which taps into the lower end of stock A in the usual manner.

A reamer constructed, as herein described, with an adjustable detachable flat knife can be made very durable and economical, and repaired with facility and at comparatively little expense.

I claim—

1. A bung-hole reamer composed of the stock A and shank *a*, formed in one piece, the stock A having the open throat E *e*, the depression, and cap-plate D, for detachably and adjustably securing the flat slotted knife C in position for cutting, substantially as herein set forth.

2. The combination, in a bung-hole reamer, of a tapering stock, A, having a chip-clearing throat, E *e*, and a longitudinal recess, the base or back of which forms a flat seat, a cutter or knife, C, arranged on the said seat, a cap-plate, D, arranged longitudinally along the stock over the cutter or knife, and screws *d*, passing through the cap-plate and knife and tapping the stock, substantially as described.

3. In a bung-hole reamer, the combination

of the stock A, having the transverse perforations *o*, the flat slotted knife or cutter C C', seated within a longitudinal recess in the stock, the cap-plate D, arranged upon the knife or
5 cutter, and the screws *d*, passing through the cap-plate and the slots in the knife or cutter, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

HENRY F. W. BUECKER. [L. s.]

Witnesses:

JNO. E. JONES,

ADOLPH GLUCHOWSKY.