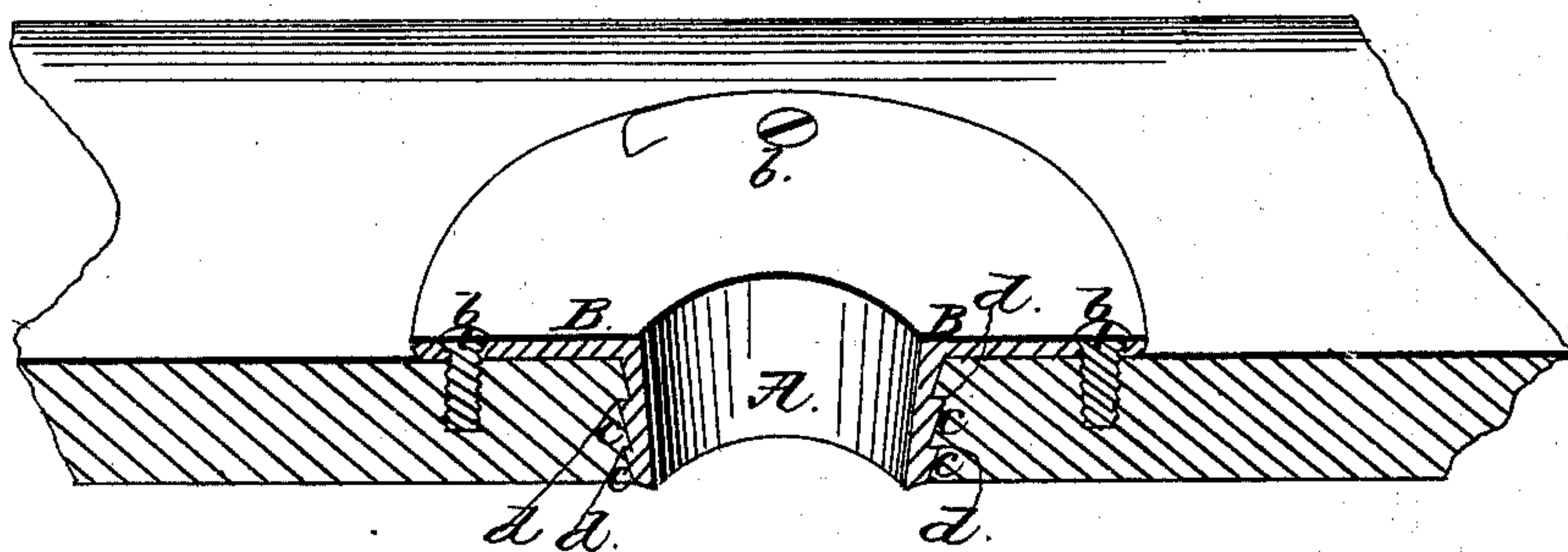


*Burg Bush,*

*Patented Feb 19, 1867.*



Witnesses:

Charles A. Teltel.

D. F. Fetter

By Munro & Koupch  
Attorneys.

# United States Patent Office.

DAVID F. FETTER, OF NEW YORK, N. Y.

*Letters Patent No. 62,189, dated February 19, 1867.*

## IMPROVEMENT IN BUSHING FOR BARRELS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, DAVID F. FETTER, of New York city, in the county and State of New York, have invented a new and useful Improvement in Bushing for Barrels; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable one skilled in the art to which the invention appertains to make use of it, reference being had to the accompanying drawings, which form a part of this specification, and in which my invention is represented by a sectional perspective view of a portion of the bung stave with the bushing applied, the plane of section passing axially through the bushing. This bushing forms a lining for the bung-hole or other holes in casks or vats; it is designed to save the wear and tear of the staves, and is secured by means of barbed creases on the outer periphery of the bush, which catch upon the wood and prevent its removal. The extended plate surrounding the bush may be fastened by rivets or screws to the staves, if desired.

In the drawings, A is the bush, the interior of which is to be occupied by the bung-plug or faucet; the plate B forms an extended surface around the bush, and the holes *b* therein afford the means of fastening the plate to the staves by screws or rivets. Circular grooves are made around the bush of such shape as to form a barb-shaped, when received in section. The purpose of this shape is to present an inclined face to the wood as the bush is driven in, but to present a flat face to the wood when a power is exerted to remove the bush, as will be readily understood from the sectional view.

In driving in the bush the wood will be pressed by the inclined face *c*, but after it has reached its proper position the wood will expand into the grooves, and the square face *d* will catch upon the wood and render it impossible to withdraw the plug without tearing out the wood which holds it. Additional security, if desired, may be attained by the screws or rivets *g*, which pass through the holes *b* in the plate B.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The bush constructed with the angular ridges presenting an inclined or wedge-shaped surface to the wood, while the bush is being driven into place, and a flat surface opposed to the wood when a power is exerted to withdraw the bush, substantially as described and represented.

DAVID F. FETTER.

Witnesses:

J. F. WILLIAMS,

J. N. WILLIAMS.