

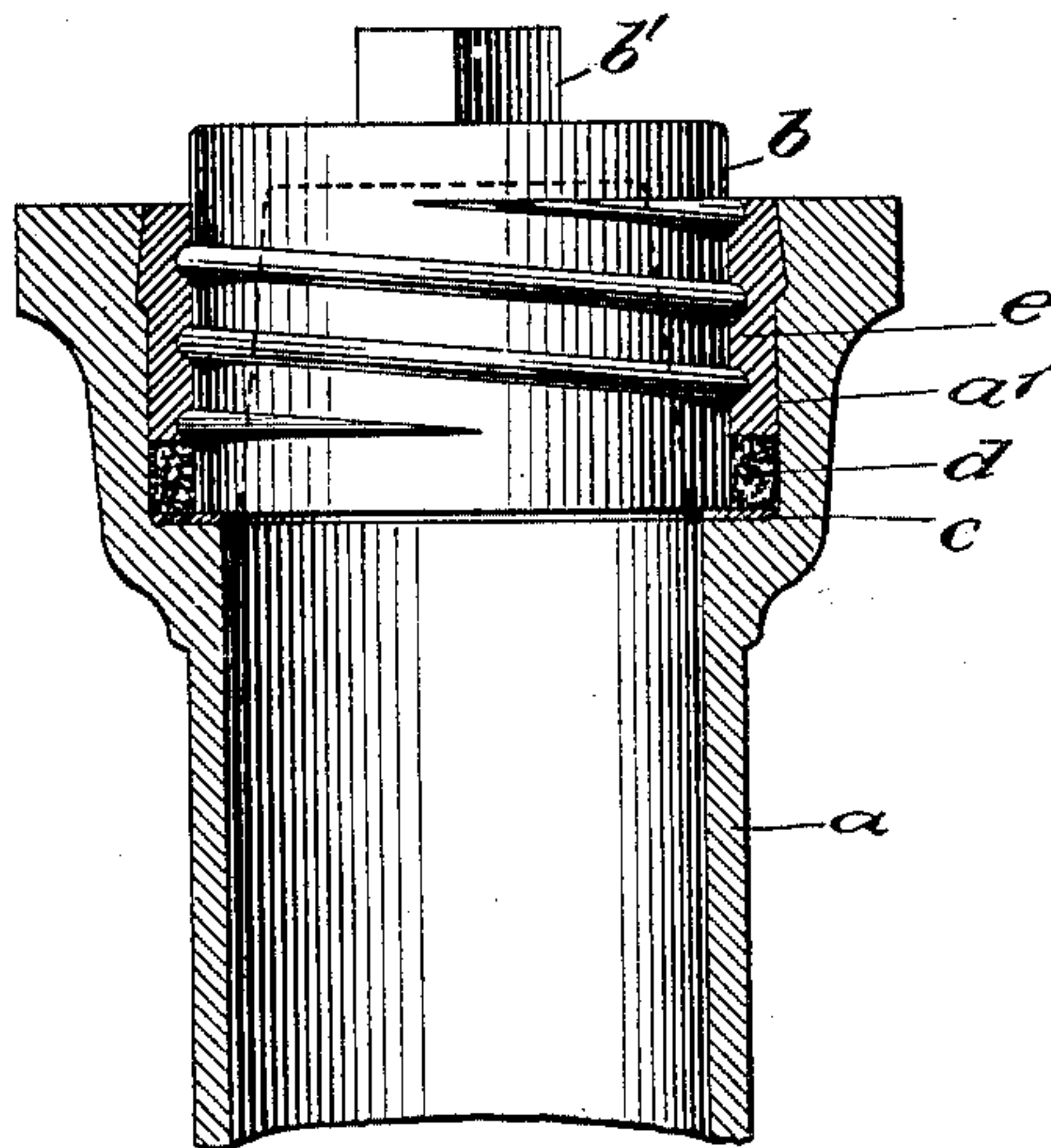
No. 675,680.

Patented June 4, 1901.

G. B. SIDELINGER.  
PIPE STOPPER.

(Application filed Nov. 23, 1900.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE B. SIDELINGER, OF DANVILLE, ILLINOIS, ASSIGNOR OF ONE-HALF  
TO GEORGE J. LONG, OF LOUISVILLE, KENTUCKY.

## PIPE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 675,680, dated June 4, 1901.

Application filed November 23, 1900. Serial No. 37,467. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE B. SIDELINGER, a citizen of the United States, and a resident of Danville, in the county of Vermilion and State of Illinois, have invented a new and Improved Pipe-Stopper, of which the following is a full, clear, and exact description.

This invention relates to a means for hermetically sealing the ends of pipes and similar structures, the invention enabling me to seal the pipe in the most secure manner and also to conveniently and easily remove the plug when it is desired to do so.

This specification is the specific description of one form of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawing, forming a part of this invention, in which the figure represents a sectional view of the invention.

*a* represents a pipe which has a bell or enlargement *a'* at its end, the inner walls of which are irregular in form, involving an undercut or tapering portion, the purpose of which will fully appear hereinafter.

*b* is the plug, which is threaded, as shown, and provided with a squared nipple *b'* for the application of a wrench.

*c* represents a wooden or other annulus which is set in the bell *a'* in engagement with the square shoulder at the base thereof, so as to form a seat for the inner end of the plug *b*, which bears squarely on the annulus to limit the inward movement of the plug, as shown in the drawing.

*d* represents a packing of hemp, jute, or the like, which is wound around the plug below the threads. This packing is applied to the plug before the plug is seated in the bell of the pipe, and then the plug, with the packing, is introduced into the bell to occupy the position shown in the drawing and the packing is tightly rammed in place. When this has been done, a mass of molten lead is poured into the bell around the plug and raised to a level commensurate with that of the end of the pipe. This lead is allowed to set in the bell, thus forming a leaden nut,

(represented at *e* in the drawing.) If desired, the lead may be forced downward into the bell while the lead is setting, so as to form a more compact mass. The stopper thus formed is necessarily hermetic.

To remove the plug and open the pipe, it is only necessary to strike the nipple *b'* a sharp blow, loosening the plug within the nut, and then the plug may be unscrewed. The nut itself cannot be forced out of the bell of the pipe by internal pressure, since the irregular or undercut walls of the bell form a shoulder, against which bears a corresponding shoulder on the nut, and this holds the nut securely in place.

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

1. In a pipe-stopper, the combination with the pipe having an enlargement or bell at its end, and an internal shoulder at the base of the enlargement, of an annulus fitted in the enlargement and bearing on the shoulder, a threaded plug set in the enlargement and bearing at its edges on the annulus to limit the inward movement of the plug, a packing placed around the plug directly contiguous to the annulus, and a metallic nut molded into the enlargement of the pipe and around the threaded portion of the plug.

2. In a pipe-stopper, the combination with the pipe having an enlargement or bell at one end, and an internal shoulder at the inner end of the enlargement, of an annulus fitted in the enlargement and bearing on the shoulder, a plug set into the enlargement and engaging at its edges the annulus to limit the inward movement of the plug, and a nut located in the enlargement and engaging the threaded portion of the plug.

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

GEORGE B. SIDELINGER.

Witnesses:

W. L. CUNDIFF,  
W. R. LAWRENCE.