

No. 658,049.

Patented Sept. 18, 1900.

G. SMYTH.
BARREL BUNG.

(Application filed Sept. 25, 1899.)

(No Model.)

Fig. I.

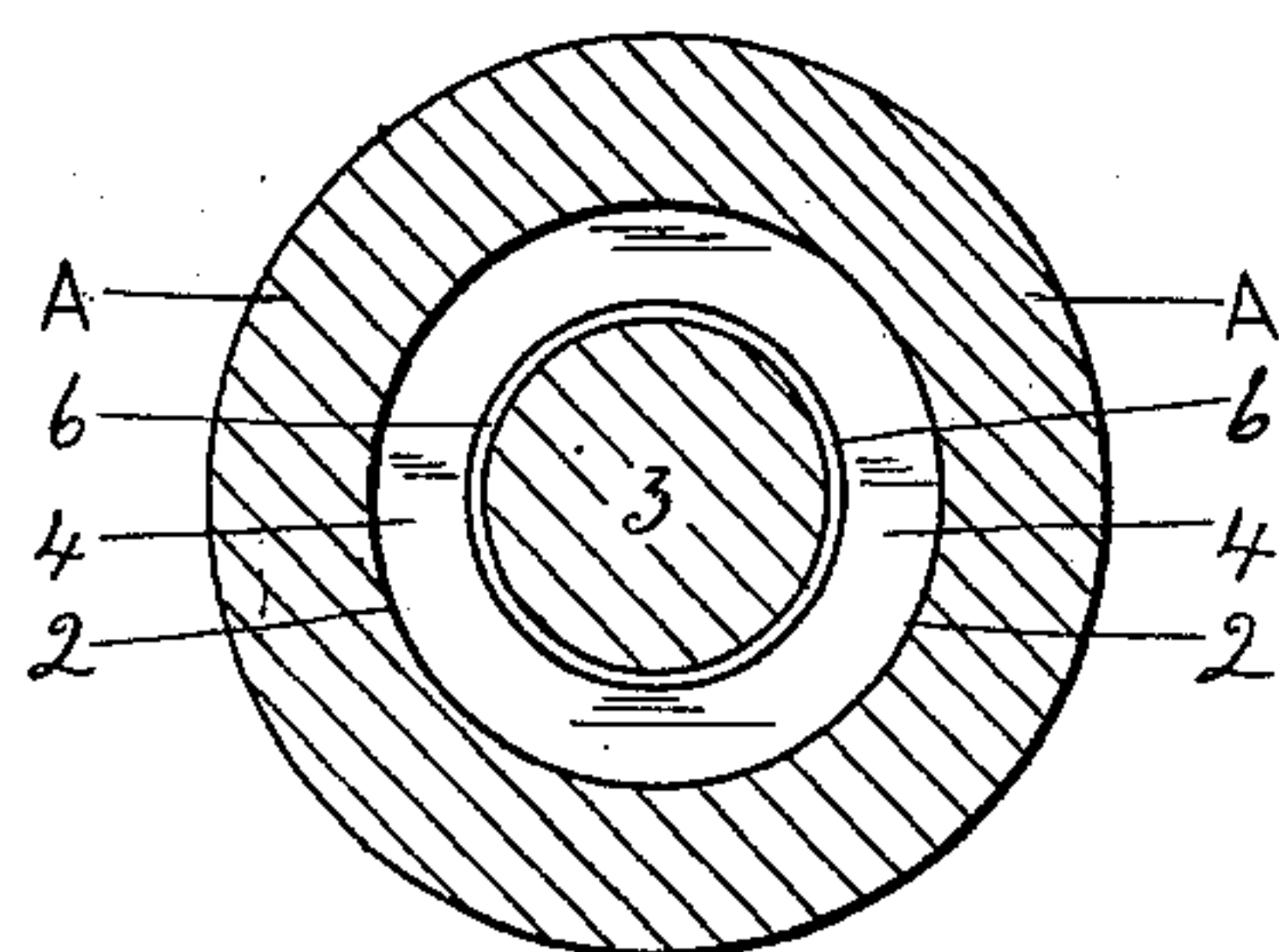
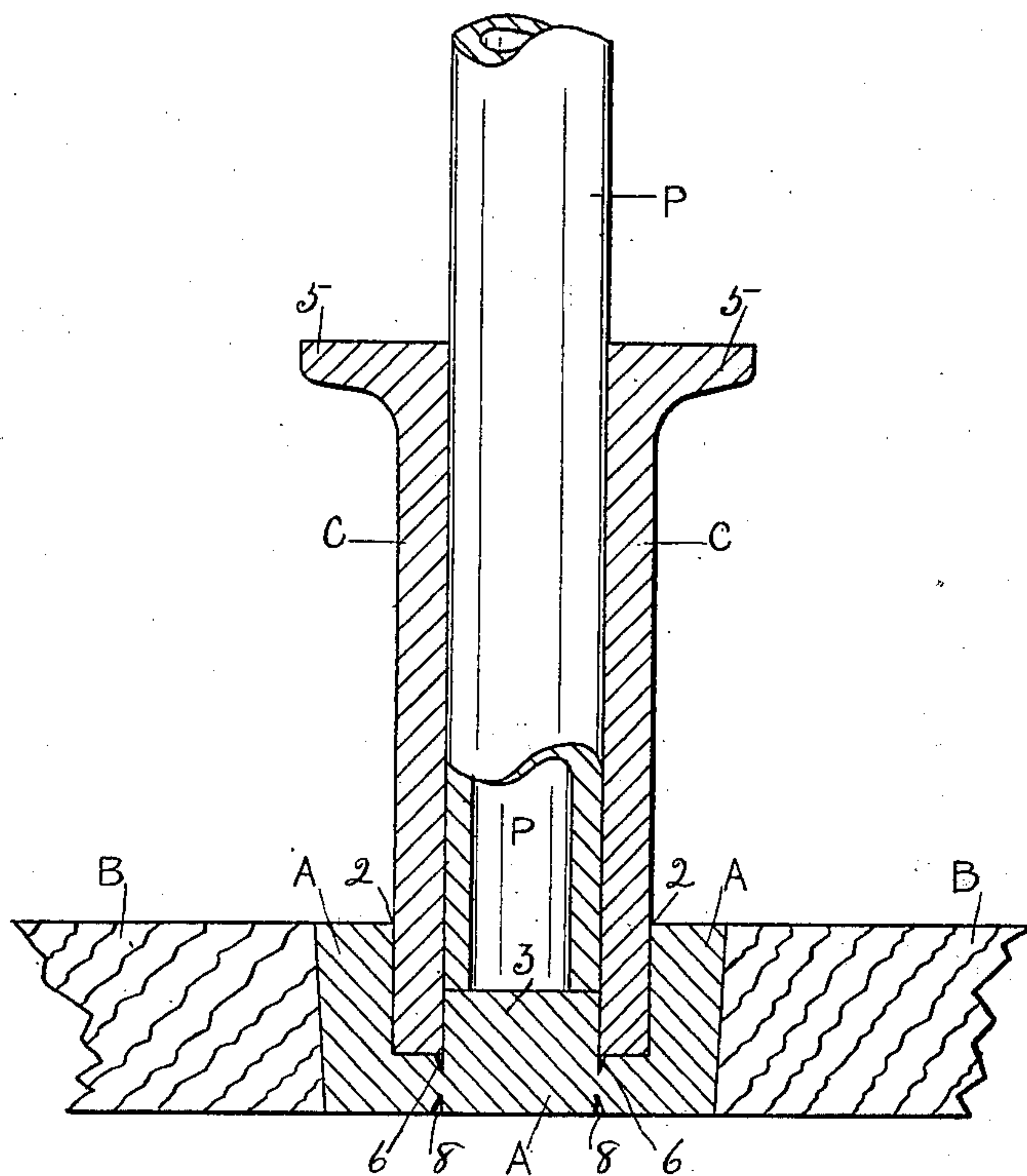


Fig. II.

Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE SMYTH, OF HAMILTON, CANADA.

BARREL-BUNG.

SPECIFICATION forming part of Letters Patent No. 658,049, dated September 18, 1900.

Application filed September 25, 1899. Serial No. 731,587. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SMYTH, a citizen of Canada, residing at Hamilton, in the county of Wentworth and Province of Ontario, Canada, have invented new and useful Improvements in Barrel-Bungs, of which the following is a specification.

My invention relates to a barrel-bung having a circular recess with raised center core.

The object of my invention is to provide a bung which when inserted in position shall be capable of being formed with tap connection in the most efficient manner. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a sectional elevation of my improved bung inserted in position in a barrel and means for tapping the bung. Fig. 2 is a sectional plan of the detached bung.

In the drawings the slightly-tapering bung is indicated by A and is shown inserted in position in a barrel B. This bung has a circular recess 2, with a central circular raised part or core 3, forming an annular channel 4 between the wall of said recess and the said core. C is a vertical metallic plug and guide for insertion into said circular recess 4 of the bung and fits very tightly and snugly therein and around the center core 3. The right-angle lugs or flanges 5 of said plug are to allow the same to be driven to position, as shown. The top of the core is below the top of the bung to facilitate the insertion of the plug into the bung. The plug prevents the bung from the possibility of splitting and shrinking at the time of driving the core and after the core is driven through the bung. A vertical pipe P passes through the vertical through-opening of this vertical plug C and has the same outer diameter as the raised core 3. This pipe fits snugly and freely in the said plug C. When this pipe is driven or otherwise forced through the bung, the center core 3 is forced very cleanly by the pipe and falls into the barrel. At this time the pipe forms a tight-fitting cork with central outlet to the bung, and hence to the barrel. This clean opening made through the center of the bung by means of the forcing of this central pipe upon the raised center core 3, together with the plug preventing the bung from splitting and shrinking and the pipe acting as a

secure cork with central outlet, are very important. It will be observed that the whole of this center core 3 fits snugly into the vertical opening of the plug C in order that the said opening of the plug shall be a guide for the center core 3 while the same passes through the lower part of the bung with the pipe. This pipe may then be forced into the barrel to any desired depth. It is important that these several parts mentioned shall fit very snugly one into each other—for instance, the tapered bung must fit into the barrel, the vertical plug must fit around the wall of the circular recess of the bung and in the annular channel to the base and around the raised core 3 of the bung, and the vertical pipe must fit into the said plug.

This bung is preferably made of wood and turned in a lathe, and at the base of the channel at the root of the core 3 a cut or severance is made around said core, as at 6, to facilitate the leaving of the core 3, and also a clean circular cut or severance of the same diameter as the said cut 6 may be made in the lower face of the bung, as at 8, to prevent any possible breaking away of the wood around said cut when the core is driven through the bung by means of the plug and the pipe. The important feature is the raised central core in the recess or socket of the bung and the vertical opening in the plug C to fit snugly around said core as a circular guide for the same.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination with a barrel-bung having a concavity in its outer face whose bottom is provided with a severable raised, central core surrounded by an annular channel having substantially-upright walls, of a tubular guide having one end fitted snugly into the annular channel and around the raised core, said tubular guide serving to guide the core-removing implement and the core itself when being punched out of the bung and preventing splitting, shrinkage, or collapsing of the bung.

2. The combination with a barrel-bung having a concavity in its outer face whose bottom is provided with a severable raised, central core surrounded by an annular channel having substantially-upright walls, of a tu-

bular guide fitted snugly into the concavity
with its end fitted snugly into the annular
channel and around the severable raised core,
said guide preventing splitting, shrinkage or
5 collapse of the bung after the core has been
driven out, and a section of pipe snugly fit-
ting the interior of the tubular guide and
adapted to be driven therethrough to punch

out the severable core from the bung and af-
ford an outlet for the latter.

In testimony whereof I affix my signature
in presence of two witnesses.

GEORGE SMYTH.

Witnesses:

JOHN H. HENDRY,
B. E. HERALD.