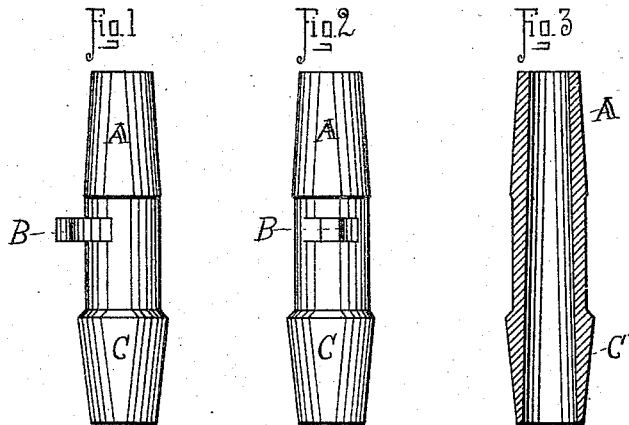


G. C. SHIPHERD.

SAP-SPOUT.

No. 184,304.

Patented Nov. 14, 1876.



Witnesses

W. H. Anderson
J. B. Hughes

Inventor

George C. Shipherd
by J. C. Anderson
attorneys

UNITED STATES PATENT OFFICE.

GEORGE C. SHIPHERD, OF BAINBRIDGE, OHIO.

IMPROVEMENT IN SAP-SPOUTS.

Specification forming part of Letters Patent No. **184,304**, dated November 14, 1876; application filed May 4, 1876.

To all whom it may concern :

Be it known that I, GEORGE C. SHIPHERD, of the town of Bainbridge, county of Geauga, and State of Ohio, have invented a new and useful Improvement in Sap-Spouts, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a sap-spout for the conveyance of the sap of the sugar-maple or other trees from the bore in the tree to some vessel, in the usual way.

In the accompanying drawing, Figure 1 is a full-length side view of my sap-spout, showing a projection for a bucket-holder. Fig. 2 is a top view of the same, and Fig. 3 is a longitudinal section of the spout.

A is the end first driven into the bore of the tree; B, the projection for holding the bucket, and C the thick or large end of the sap-spout.

Each end of the spout is made tapering, so as to convey all sap from the bore in the tree to the bucket. The end A is first used in the

bore of the tree; and should the flow of sap be retarded or checked by acidity or otherwise, the end C may be used after enlarging the bore in the tree. The end C now fits the same as the end A in the first instance. By this operation acidity is removed and the flow of sap increased. The projection B is made so as to be used when either end of the spout is in the bore. I make my sap-spout of zinc or any other suitable metal, with a suitable bore through the same for the passage of the sap; and I make the bore tapering from the end A of the spout, for the reason that were the bore of equal diameter at both ends, the flow of sap would be retarded or checked from the end C.

Having thus described my invention, what I claim is—

A metallic reversible sap-spout of the shape described, cast in one piece, as a new article of manufacture, as and for the purpose set forth.

GEORGE C. SHIPHERD.

Witnesses:

WILLIAM WHITE, JR.,
Dr. ANDREW N. COLE.