

(No Model.)

F. O. MITCHELL.
SAP SPOUT.

No. 472,306.

Patented Apr. 5, 1892.

Fig 1

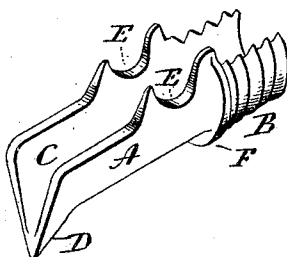


Fig 2

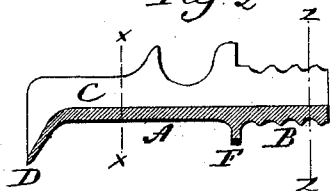


Fig 3



Fig 4



Witnesses.
J. H. Shumway
Lillian D. Kelsey.

Frank O. Mitchell.
Inventor
By atty. Earle Heyman

UNITED STATES PATENT OFFICE.

FRANK. O. MITCHELL, OF MIDDLETOWN, CONNECTICUT.

SAP-SPOUT.

SPECIFICATION forming part of Letters Patent No. 472,306, dated April 5, 1892.

Application filed December 14, 1891. Serial No. 414,984. (No model.)

To all whom it may concern:

Be it known that I, FRANK. O. MITCHELL, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new
5 Improvement in Sap-Spouts; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and
10 which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view of the spout complete; Fig. 2, a longitudinal central section of the same; Fig. 3, a transverse section
15 on line xx of Fig. 2, and Fig. 4 a transverse section on line zz of Fig. 2.

This invention relates to the construction of metal spouts for drawing sap, the object of the invention being to construct the spout
20 with a screw-threaded shank and without coring. To this end the invention consists in the construction of the spout as hereinafter described, and particularly recited in the claim.

25 A represents the body of the spout, and B the shank. Upon the upper surface of the spout is constructed a groove C, continuous through the body and the shank, the groove being open throughout the entire length. At the
30 outer end the spout is turned down to form a drip D, and upon the upper edges of the body notches E are formed for the support of the bucket. The shank is of cylindrical shape, as seen in Fig. 4, except as to the groove, which
35 continues throughout the length of the body and shank. The shank is screw-threaded, and

at the base or outer end of the screw-thread a shoulder F is formed. The screw-thread is formed the same as if the shank were a complete cylinder and cored out to form the
40 passage through which the sap will run into the body of the spout; but by continuing the groove open through the screw-threaded shank I am enabled to cast the spout complete
45 without coring.

Previous to my invention spouts of similar character have been constructed; but the
46 shank was cored to form a passage leading into the body of the spout. Such coring adds
50 very greatly to the cost of the spout.

By the construction of the spout according to my invention a very large proportion of the cost of the previous construction is avoided and the shank is so near a complete cylinder
55 as to readily screw into the hole bored in the tree as if it were a complete thread. Again, the groove opens the spout to the body of the tree to form a greater space for the flow of sap.

I claim—

The herein-described sap-spout, made from
60 cast metal and consisting of the body A, with the screw-threaded shank B, and having an open groove continued through both the body and the shank, substantially as described.

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

FRANK. O. MITCHELL.

Witnesses:

CHAS. A. L. MORGAN,
F. D. HAINES.