(No Model.)

# J. L. SHIGLEY.

## SAP BUCKET COVER.

No. 472,180. Patented Apr. 5, 1892.

Fig. 1.

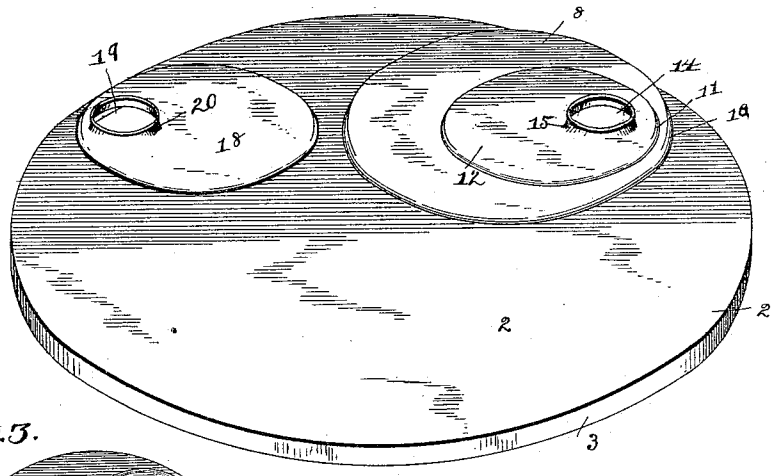



Fig. 3.

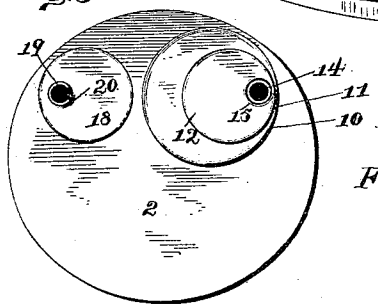
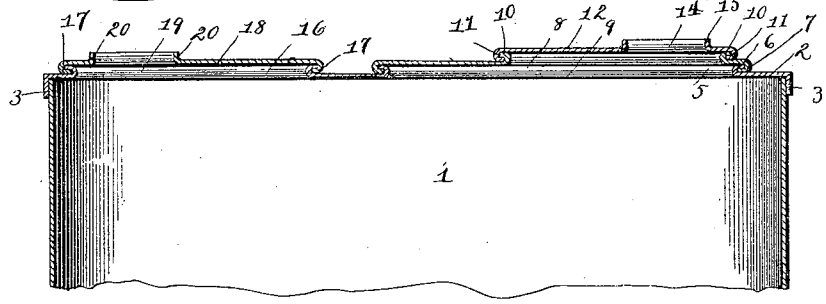



Fig. 2.

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# UNITED STATES PATENT OFFICE.

JOSEPH LINCOLN SHIGLEY, OF HART, MICHIGAN.

## SAP-BUCKET COVER.

SPECIFICATION forming part of Letters Patent No. 472,180, dated April 5, 1892.

Application filed October 22, 1891. Serial No. 409,523. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH LINCOLN SHIGLEY, a citizen of the United States, residing at Hart, in the county of Oceana and State of Michigan, have invented a new and useful Sap-Bucket Cover, of which the following is a specification.

This invention relates to improvements in covers for sap-buckets; and the objects in view are to provide a cover of simple construction which is adapted to be applied to the ordinary sap bucket or pail and to cover the same during the flow of sap, thus preventing the admission of rain, snow, particles of bark, moss, dust, leaves, &c.

A further object is to adapt the cover for use in connection with either one or two spouts and in connection with any style of spout that may be desired.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a cover constructed in accordance with my invention. Fig. 2 is a transverse section of the same. Fig. 3 is a bottom plan or diagrammatic view of the cover.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates an ordinary sap-bucket, and upon the same is removably mounted the elliptical sheet-metal cover 2, which latter has its periphery provided with a depending shallow flange 3 for inclosing the upper edge of the bucket. Eccentric with relation to the cover 2 there is formed in the same an opening 5, of circular shape, and the edge of the opening is struck up to form an annular flange 6. This flange receives and is inclosed by the annular flange 7, formed upon a disk 8, of sheet metal, and the two flanges are interlocked by compression, so that said disk 8 is swiveled upon the flange 6. Eccentrically formed in the disk 8 is a circular opening 9, the edge of which is struck up to form the flange 10, which receives the depending annular flange 11, formed upon the edge of a second disk 12. The disk 12 is flattened upon the disk 8, so that the two flanges interlock. The disk 12 has formed eccentric therewith and therein a small circular opening 14, having a surrounding struck-up flange 15. The disks 8 and 12 are thus swiveled together, the latter upon the former and the former upon the cover, so that by a proper manipulation or rotation of the two disks the opening 14 may be given any position within the radius of the disk 8, whereby it is adapted to receive sap from the various styles of sap-spouts. At one side of the disk 8 and eccentric with relation to the cover there is formed in the cover an opening 16, the edge of which is struck up and interlocks with the flange 17, formed on the edge of a disk 18, which disk is provided with an eccentric opening 19, having a surrounding struck-up collar 20.

In practice if the trees are small the holes should be bored at an angle to each other, so that the ends of the spouts will be about one inch to the right of the center. The spouts are then driven in and the bucket hung upon one of the same. The cover is now placed upon the bucket in a manner obvious and the disk 18 rotated so as to bring the opening 19 below the left-hand spout. It simply remains to manipulate the two disks 8 and 12 to bring the hole 14 of the latter under the right-hand spout. Where it is desired to employ but one spout, the disks 8 and 12 are omitted and simply the disk 18 employed. If desired, the cover may be strengthened by an annular depression or rib, the same lending stiffness; but such is not necessary to the operativeness of my invention.

As best shown in Fig. 3, the cover is not exactly circular, but is about one-eighth of an inch less in diameter than the regular diameter of a sap-bucket and at a right angle thereto is one-fourth of an inch greater than the diameter of the sap-bucket, so that this discrepancy allows for pails of slightly-different diameters and also adapts the cover to be sprung into position upon the bucket, the expansibility of said bucket being sufficient to retain the cover in position.

Having described my invention, what I claim is—

1. The herein-described sap-bucket cover, the same being provided with an eccentric opening having an interlocking annular flange and a disk having an annular flange

interlocking therewith and mounted over the opening and provided with an eccentric opening, substantially as specified.

2. The herein-described cover for sap-buckets, provided with an eccentric opening having an annular flange, a disk swiveled on the flange and covering the opening and provided with an eccentric opening, and a second disk swiveled on the second opening and having an eccentric opening, substantially as specified.

3. The herein-described sap-bucket cover, provided with two eccentric openings arranged side by side, disks swiveled on said openings and provided with eccentric openings, and a disk having an eccentric opening swiveled on one of said disks, substantially as specified.

4. The herein-described elliptical sap-bucket cover, having the surrounding depending flange and provided with two eccentric openings arranged side by side, which openings have their edges struck up to form flanges, circular disks having depending flanges interlocking with and swiveled upon the flanges first mentioned, each of said disks having eccentric openings provided with flanges, and a third disk having depending flanges interlocking with and swiveled upon the flange of one of said disks and having an eccentric opening, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH LINCOLN SHIGLEY.

Witnesses:
ELLA J. BURNHAM,
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