

(No Model.)

H. S. BANTA & W. I. BAMBERGER.
FOUNTAIN TYMPAN OILER.

No. 470,460.

Patented Mar. 8, 1892.

Fig. I.

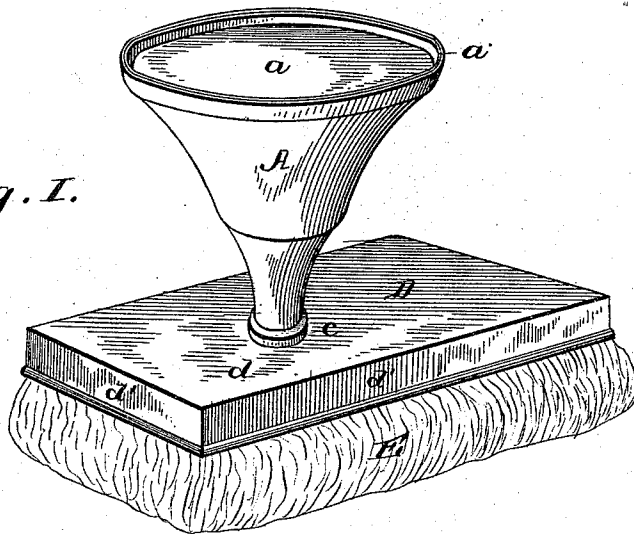
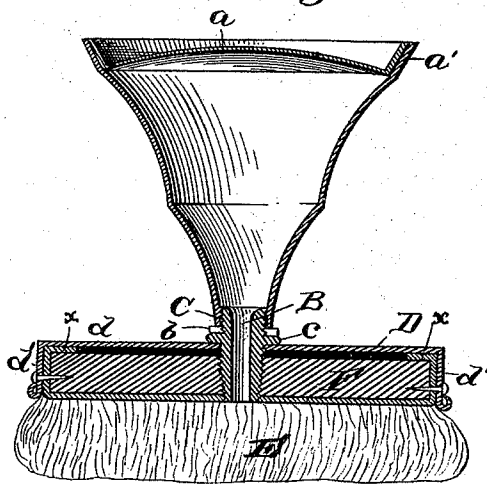


Fig. II.



Witnesses:

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UNITED STATES PATENT OFFICE.

HARRY S. BANTA AND WILLARD I. BAMBERGER, OF KANSAS CITY,
MISSOURI; SAID BANTA ASSIGNOR TO SAID BAMBERGER.

FOUNTAIN TYMPAN-OILER.

SPECIFICATION forming part of Letters Patent No. 470,460, dated March 8, 1892.

Application filed May 2, 1891. Serial No. 391,325. (No model.)

To all whom it may concern:

Be it known that we, HARRY S. BANTA and WILLARD I. BAMBERGER, citizens of the United States, and residents of Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Fountain Tympan-Oilers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to an improved fountain tympan-oiler; and the object is to provide a cheap and simple device adapted to be used by hand to oil the tympan on a printing or plate press to prevent offset, and which will operate to evenly distribute the oil over the entire tympan.

With these ends in view our invention consists of a hollow receptacle having a flexible diaphragm, a base connected to said receptacle, and a saturating medium fixed to the base. The receptacle is screw-threaded to screw into the base, and between the base and receptacle is placed a supply-conduit, which is secured in place on the broad flat base of the oiler. The base has downwardly-projecting sides, between which is fastened the saturating medium, and a short tube projects from the receptacle through the base a sufficient distance to convey the oil directly from the receptacle to the saturating medium.

To enable others to more readily understand our invention, we have illustrated the same in the accompanying drawings, in which—

Figure I is a perspective view of our improved fountain tympan-oiler; and Fig. II is a vertical sectional view taken longitudinally through the oiler.

Referring to the drawings, in which like letters of reference denote corresponding parts in both figures, A designates the hollow receptacle which contains the oil. This receptacle can be constructed of any desired shape and size; but we prefer to make it substantially cone-shaped, as shown in the drawings, although many other constructions may be used. The receptacle has a flexible diaphragm *a*, which is adapted to spring or give under pressure and cause the oil to flow out through

the conduit or tube into the saturating medium. The diaphragm is protected from the ordinary wear of constant use by downwardly-projecting flanges *a'*, which form a continuation of the sides of the oil-receptacle and project below the diaphragm *a*, which is secured thereto in a suitable manner. The apex of this oil-receptacle is continued or extended by means of a hollow tube B and is threaded on its inner surface and designed to receive the threaded neck C of the supply-conduit B. A washer *b* is fitted around the threaded neck of the supply-conduit, so that a tight and firm joint is formed, which is desirable to prevent the oil from dripping out.

The supply-conduit B is provided with an enlarged flange *c* about midway of its length, and this conduit is threaded externally below the flange *c*, so as to be firmly secured into the base D of the oiler, the flange serving to arrest the inward adjustment of the conduit into the base. This base D consists of a rectangular-shaped metallic shell or case *d*, having the depending flanges *d'* extending entirely around the edges thereof, in which the saturating medium is clamped or otherwise secured by means of a solid clamping plate or block F, which forms a part of the base and serves as a reinforce to the metallic shell *d*.

The saturating medium E is preferably a strip of merino wool; but we may also use a sponge, rags, or other material, as desired.

The solid clamping plate or block F is arranged to fit within the sides *d'* of the case or shell D, by which the edges of the saturating medium are tightly drawn over the block or plate, and then are securely held in position by bending them over the block to be clamped between itself and the case or shell, as at *x* in Fig. II; or the saturating medium may be secured in its proper place by screws or pins. The conduit B passes through the plate or block and projects into the soft saturating medium, so that the oil which is impelled from the receptacle is conducted directly to the saturating medium and is evenly distributed throughout the same.

This fountain-oiler has been found to be a useful device for printers, as it can be filled with oil and used for several days without refilling. The device operates to distribute

the oil evenly and uniformly over the tympan, and it effects a saving in time by combining in one article an oil-receptacle and the brush for applying the oil. It also obviates the use
5 of rags for applying oil, which is the common practice, but which is objectionable owing to the great inconvenience and waste of oil.

We are aware that changes in the form and proportion of parts and details of construction can be made without departing
10 from the spirit or sacrificing the advantages of our invention, and we therefore reserve the right to make such changes as fall within the scope of our invention.

15 Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A tympan-oiler comprising an oil-receptacle having a tapered end, the supply-conduit removably secured in said oil-receptacle,
20 the case or shell having the downwardly-extending side pieces, the stiff backing F, and the saturating medium tightly clamped between the backing and the case or shell, substantially as described.
25

2. A tympan-oiler comprising an oil-receptacle having its tapered end threaded internally, a supply-conduit screwed into said threaded end, a projecting flange on said conduit, the washer, the case or shell, the stiff
30 backing wholly inclosed within said case or shell and secured on the supply-conduit, and the saturating medium tightly clamped between the backing and the case or shell, substantially as described. 35

3. A tympan-oiler comprising the base having the brush, the stiff backing which clamps the brush between itself and the base, a tube or conduit fixed in said base and discharging to the brush, and the removable oil-receptacle secured to the protruding end of the
40 tube or conduit, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

HARRY S. BANTA.

WILLARD I. BAMBERGER.

Witnesses:

O. E. GROVE,

W. B. MOORE.