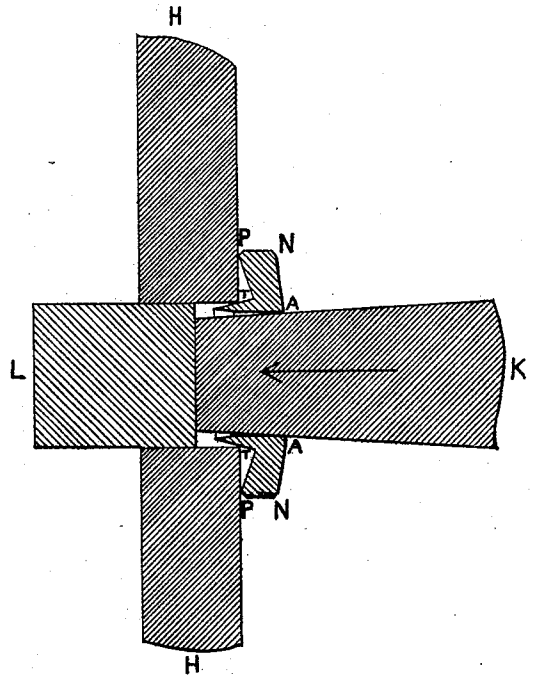
(No Model.)

A. R. SCHMIDT & O. O. SORG.

DEVICE FOR TAPPING VESSELS.

No. 247,784. Patented Oct. 4, 1881.



WITNESSES.

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UNITED STATES PATENT OFFICE.

ANDREW R. SCHMIDT AND OSCAR O. SORG, OF ANN ARBOR, MICHIGAN.

DEVICE FOR TAPPING VESSELS.

SPECIFICATION forming part of Letters Patent No. 247,784, dated October 4, 1881.

Application filed February 7, 1881. (No model.)

To all whom it may concern:

Be it known that we, ANDREW R. SCHMIDT and OSCAR O. SORG, of Ann Arbor city, Washtenaw county, and State of Michigan, have invented a new and useful Improvement in Devices for Tapping Vessels Containing Fluids, of which the following is a specification.

The invention relates to a device for tapping vessels of fluids without loss or splashing.

Heretofore such devices have consisted of a conical annular ring or packing operating by being compressed between the surface of the tapping-plug, faucet, or other object driven into the orifice in the vessel and the surface of that orifice.

The object of our invention is to provide another device, operating in a different manner, for preventing the loss, danger, or splashing incident to the tapping of vessels containing fluids, and as experiments made by us seem to demonstrate, a device of wider application than any other we have seen used or made, or have been able to find plans for.

The invention consists of a piece of elastic material, as rubber, with a hole in it, into which the tap, be it spile, faucet, or other object, is thrust, and a peculiarly-formed rim, which is forced against the outside of the vessel as the tap is driven into the orifice.

Finally, this invention consists in forming the elastic material so it will be forced against the outside of the vessel upon driving the tap.

Referring to the drawing herewith presented, H is the wall of the vessel. L is the plug or cork with which the orifice in H was stopped. K is the tap, entering as indicated by the arrow, having around it the tapping-ring N. This tapping-ring N contains the invention here referred to. The invention consists in adding the projecting neck at T to a ring of rectangular cross-section. The whole ring, as shown, being upon the tap as it is driven, the entering of the neck above referred to into the orifice in H, and there being compressed between the tap K and the sides of the orifice, the rim P N A T is drawn firmly against the face of H, as this neck at T is drawn into the orifice by the blows on K. Our further experiments have taught that it is not necessary to give any peculiar form to the rim P N A T, simply a rectangular cross-section being entirely sufficient and successfully operative for the purpose here set forth, it being distorted into the best possible shape, apparently, by the taper of the tap K, the material of the ring being elastic. It has been found necessary to give a certain conical form to the inside of the neck referred to, in order that one size of ring may fit several sizes of holes. This form is indicated on the inner part of the neck in the drawing, and is simply the surface of a hollow conical frustum.

The operation of this device is as follows: As K is driven in, forcing L into the vessel, the tapping-ring by the same blow has its rim forced against the outer surface of the vessel, preventing loss, danger from the spurting fluid, (as in the case of acids,) and splashing. This is illustrated by the bearing of the rim at P.

In order to arrive at our claim, we wish it especially understood that this invention is for the sole purpose of preventing splashing in tapping, and is not for the purpose of preventing leakage or securing plugs, bungs, &c., in place.

What we claim is—

1. The form of tapping-ring herein shown, the distinguishing feature of which is the neck by which the rim of the ring is forcibly drawn and retained against the outer surface of the vessel tapped, operating in the manner set forth, all substantially as described.

2. The packing-ring having the conical neck on its inner side, substantially as and for the purpose set forth.

ANDREW R. SCHMIDT.
OSCAR O. SORG.

Witnesses:
AUGUST T. SINKE,
CARROLL REMICK.