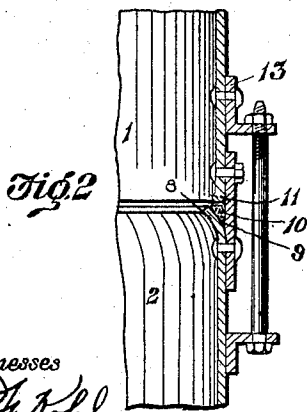
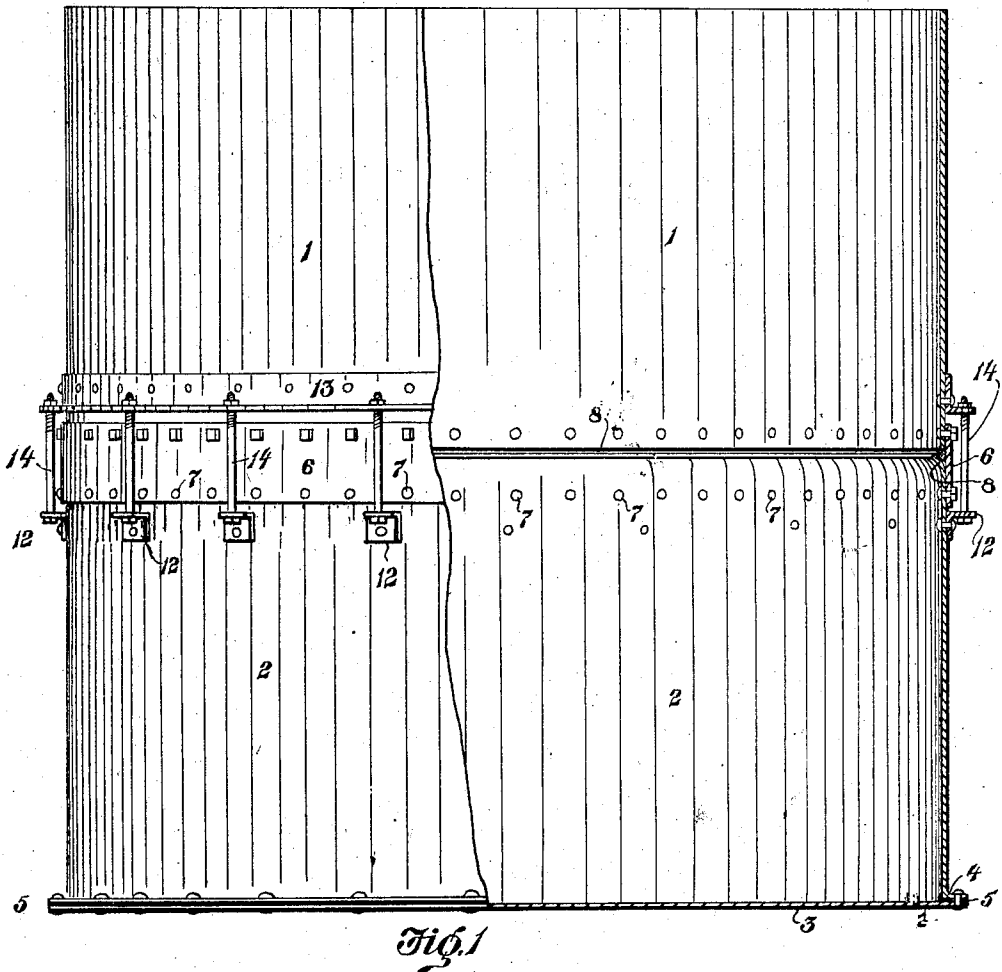


W. E. SHOEMAKER.
SECTIONAL TANK.
APPLICATION FILED APR. 8, 1912.

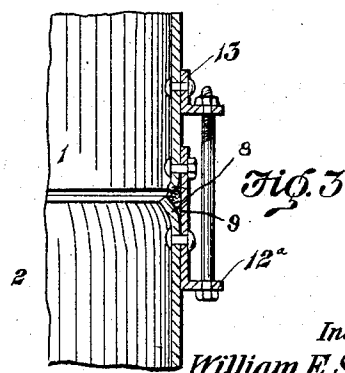
1,037,554.

Patented Sept. 3, 1912.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM E. SHOEMAKER, OF CANTON, OHIO.

SECTIONAL TANK.

1,037,554.

Specification of Letters Patent.

Patented Sept. 3, 1912.

Application filed April 8, 1912. Serial No. 689,206.

To all whom it may concern:

Be it known that I, WILLIAM E. SHOEMAKER, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Sectional Tanks, of which the following is a specification.

The invention relates to a cylindric sheet metal tank for storing liquids, grains and other mobile materials; and the object of the improvement is to make the tank with a plurality of tubular sections which can be readily connected endwise for use or disconnected for transportation.

To this end, the invention pertains more particularly to the means for joining together the detachable tubular sections, so that the same may be readily assembled and secured together to make a strong, inflexible and impervious joint.

The object and purpose of the invention, thus set forth in general terms, are attained by the preferred embodiment of the improvement illustrated in the accompanying drawing, forming part hereof, in which—

Figure 1 is a side elevation, partly in section, of a tank composed of two sections joined together according to the present invention; Fig. 2, a fragmentary section showing the joint; Fig. 3, a fragmentary section showing a modified form of the joint ring.

Similar numerals refer to similar parts throughout the drawing.

The tank is composed of two or more cylindric or tubular sections as 1 and 2 located endwise one upon the other, the lower section 2 being provided with the bottom 3 which may be secured by its rim to the external annular flange 4 formed on the lower end of the lower tank section, with the intervening packing 5.

The cylindric joint ring 6 is secured around the upper end of the lower tank section 2, as by means of the series of rivets 7. About one-half the width of the joint ring extends above the rim 8 of the lower tank section, and this rim is bent or swaged in-

ward to form the V-shaped groove 9 between the rim and the joint ring.

The packing ring 10, which may be of hemp rope, rubber or the like, is then laid in the V-shaped groove 9 and the lower end of the upper tank section is then telescoped inside the upwardly extending portion of the joint ring, whereupon the lower rim 11 of the upper tank section impinges the packing ring 10, and, by crowding it into the V-shaped groove, forms an impervious joint.

The lower rim 11 of the upper tank section is preferably bent or beveled inward to stand slightly away from the joint ring, so that the rim will more readily embed itself into the packing ring by permitting some of the packing to be squeezed between the rim and the ring; but this detail of construction is not an essential feature of the invention.

A series of angle cleats 12 is secured at intervals around the lower tank section adjacent to the lower side of the joint ring, and an angle bar 13 is secured around the lower part of the upper tank section adjacent to the upper edge of the joint ring; and the series of longitudinal bolts 14 is extended through the angle flanges of the cleats and the bar, by means of which the tank sections are drawn and clamped tightly together, after which the joint may be further strengthened by the use of a series of bolts 15 extending through the upper part of the joint ring and the lower end of the upper tank section. It is evident that the use of the continuous angle bar 13 on the upper tank section for engaging the bolts 14 is not essential, but the use of such a bar is preferred because it serves as a rib to strengthen the annular shape of the tank section; and it is furthermore evident that an external annular flange, as 12^a, can be provided on the lower edge of the joint ring, in lieu of the series of cleats 12, without departing from the spirit of the invention.

I claim:

A sheet metal tank including a plurality of tubular sections, a cylindric ring secured around the end of one section and extend-

ing beyond the rim thereof and the rim of the same section being bent or swaged inward to form a groove between said rim and the cylindric ring, a packing ring in the
5 groove, the adjoining end of the adjacent section being telescoped inside the extending portion of the cylindric ring so that its rim will impinge the packing, with means
for drawing and clamping the sections together and means for securing the telescoped end of said adjacent section to the
10 cylindric ring.

WILLIAM E. SHOEMAKER.

Witnesses:

RUTH A. MILLER,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."