

C. MARTHINSON.
 PACKING OR STORAGE VESSEL.
 APPLICATION FILED JULY 22, 1909.

935,918.

Patented Oct. 5, 1909.

Fig. 1.

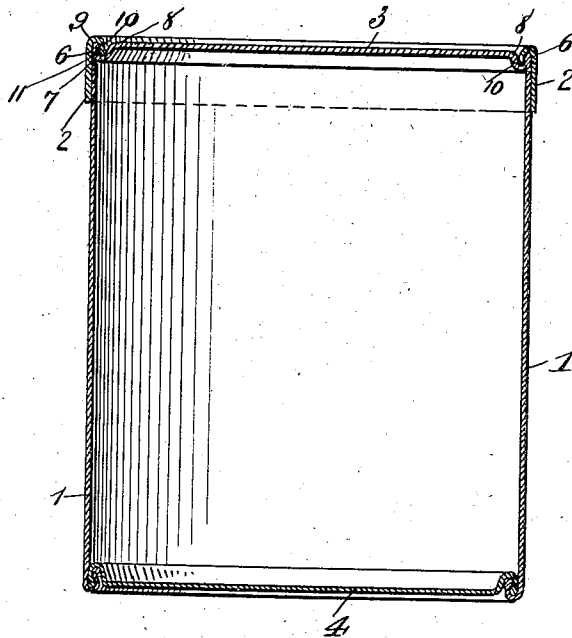


Fig. 2.

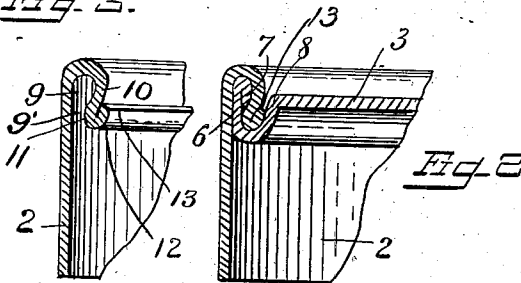
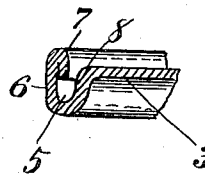


Fig. 4.



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UNITED STATES PATENT OFFICE.

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PACKING OR STORAGE VESSEL.

935,918.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES MARTHINSON, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Packing or Storage Vessels; and I 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.

My invention relates to packing or storage vessels or receptacles, has especial reference to that class of receptacles which are made of paper or the like; has for its object a cheap, durable, hygienic, sanitary and substantial receptacle, and consists in certain improvements in construction, which will be fully disclosed in the following specification and claims.

In the accompanying drawings, which form part of this specification:—Figure 1 represents a vertical transverse section of a vessel embodying my invention. Fig. 2 an enlarged detail view of the lock-joint securing the cap to the band of the cover. Fig. 3 a sectional view of the joint member on the wall or band of the cover, and Fig. 4 a like view of the joint member on the closure.

Reference being had to the drawings and the designating characters thereon, the numeral 1 indicates the body of the vessel or receptacle, 2 the band or flange of the cover, 3 the cap or main portion of the cover, 4 the bottom or closure of the body.

The cap 2 and the closure 4 are each provided with an annular depression or groove 5, and an annular extension 6 having an enlarged, expanded, or infolded overhanging bead, or shoulder 7 at the end thereof; and forming the upper end of the opposite or inner wall of the groove 5 is a concentric shoulder 8. The body 1 and the cover-band 2 are each provided with an annular groove 9, and an annular member 10 having an enlarged, expanded or folded-outwardly overhanging bead or shoulder 11 at the end thereof, which enters the groove 5 in the cap 2 or the closure 4. The extension 6 and the bead or shoulder 7 on the cap or the closure enter the groove 9, and the bead 7 engages the bead or shoulder 11, and the two beads are firmly interlocked under pressure as the material is spun and pressed into the form shown. The member 10 is also provided with an inwardly overhanging mem-

ber 12, the edge of which is expanded and formed into a shoulder 13 by a suitable die, not shown, used in forming the lock-joint; and the purpose of which is to hold the stock or material against spreading otherwise than laterally while the joint is being formed.

In the formation of the lock-joint the groove 9 in the body 1 and in the flange 2 of the cover is contracted at 9' adjacent to the bead or shoulder 7, to prevent the possibility of the joint being separated by pressure upon the cap or the closure, as it is impossible for the bead 7 to pass through the contraction 9'. The lock-joint thus formed prevents the closure or cap from being displaced from the body 1 or the cover-band or flange, and forms a substantial annular wall at each end of the vessel to prevent crushing by lateral pressure, in transportation to the purchaser, or in handling by the consumer.

The body 1 and the cover-band 2 extend beyond the closure and cap so that the weight of the receptacle and its contents never rests upon the closure, and when packed for transportation the upper tiers of receptacles rest upon the upper ends of the walls of the receptacles below them.

The overhanging beads or shoulders 7, 11, and 12 are formed by doubling or folding the stock upon itself under pressure and by the spinning effect produced by the machinery used in making the lock-joint between the closure and the body 1, or between the cap 3 and the cover-band 2 of the receptacle.

It will be observed that by the spreading of the stock or material to form the overhanging members, the members 6 and 10 are interlocked on their adjacent surfaces so that accidental separation of the joint is impossible.

The vessel is preferably made of paper or other like material impervious to water or other liquid, and constitutes a cheap, hygienic and sanitary vessel which may be used by dairymen, for general household and other purposes, and the cost of the vessel is so small, that after the contents of the vessel have been used, it may be thrown away.

Having thus fully described my invention, what I claim is—

1. A packing or storage vessel having a closure provided with an annular groove,

the inner wall of which forms a concentric shoulder and the outer wall having an enlarged and overhanging bead or shoulder at the end thereof; and an annular contracted
5 groove in the end of the vessel whose inner wall terminates in a similar enlarged and overhanging bead or shoulder adjacent to and abutting the bead on the closure.

10 2. A packing or storage vessel having a closure provided with an annular groove and an annular member forming one wall of the groove, and whose end is enlarged or expanded, forming an inwardly projecting

concentric overhanging bead or shoulder; and an annular contracted groove in the end
15 of the body of the vessel and whose inner wall terminates in a bead or shoulder expanded toward the center and toward the wall of the vessel, and one of said beads
20 abutting against the bead of the closure.

In testimony whereof I affix my signature,
in presence of two witnesses.

CHARLES MARTHINSON.

Witnesses:

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