

June 26, 1928.

1,674,974

W. A. LORENZ

BARREL LINING

Filed June 22, 1925

Fig. 1.



Fig. 3.



Fig. 5.



Fig. 2.

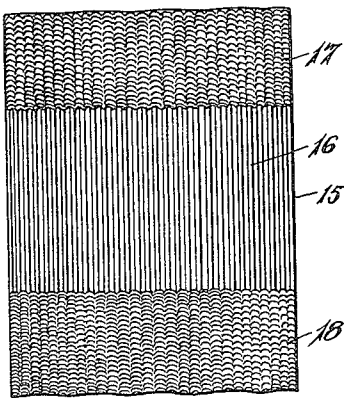


Fig. 4.

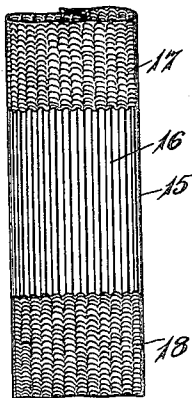


Fig. 8.

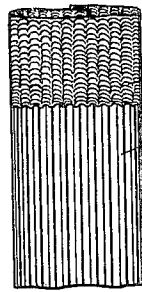


Fig. 6.

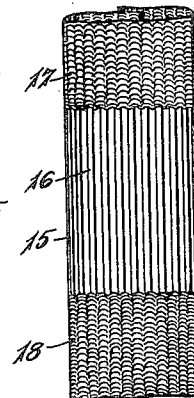


Fig. 9.

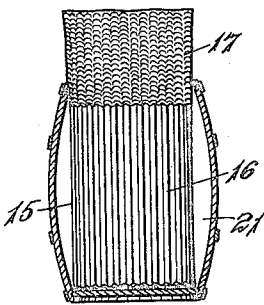


Fig. 7.

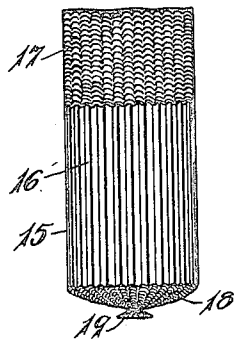


Fig. 11.



Fig. 12.

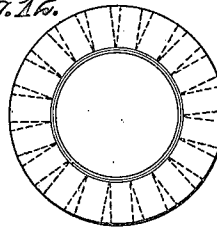


Fig. 13.



Fig. 10.

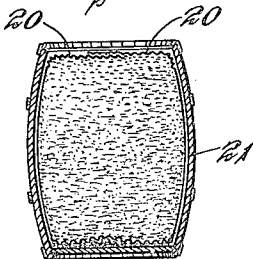
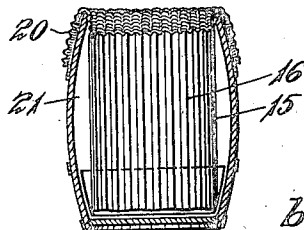


Fig. 14.



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UNITED STATES PATENT OFFICE.

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BARREL LINING.

Application filed June 22, 1925. Serial No. 38,701.

This invention relates to paper linings for barrels, and its object is to produce an improved lining that will be convenient to handle, and adapted to be quickly placed in a barrel, and when filled to be readily closed over the contents before heading up the barrel.

This lining may be made in tubular form, and the longitudinal seam may be pasted or sewed together, or the seam edges may be lapped over without joining.

In the accompanying drawings Figure 1 is an edge view and Fig. 2 a front view, of a sheet of paper to be made into a barrel lining. Fig. 3 is a plan view and Fig. 4 a front view of the blank of Fig. 1 made into a tubular form with the edges joined. Fig. 5 is a plan view and Fig. 6 a front view of a tubular blank with the longitudinal edges overlapping, but not pasted together. Fig. 7 shows the blank of Fig. 4 with the bottom gathered together and tied or sewed, so as to close the bottom of the lining. Fig. 8 shows a short length lining. Fig. 9 shows the lining of Fig. 7 inserted in a barrel. Fig. 10 shows the barrel filled with goods, and the flexible top of the lining folded down over the contents, and the barrel headed up. Fig. 11 shows an edge view and Fig. 12 a plan view of a lining for the barrel bottom made in circular form. Fig. 13 shows the barrel bottom lining of Fig. 12 with its rim or edge turned up ready to insert in a barrel. Fig. 14 shows the bottom lining of Fig. 13 inserted in the bottom of a barrel and the tubular lining of Fig. 8 inserted in the barrel, with its top flexible edge folded over the barrel mouth ready to be filled.

The lining is formed at its body part 15 with longitudinal corrugations 16, which

may be approximately the length of the barrel, or preferably a little shorter. One or both ends of the lining are made very flexible by crinkling or creping, as shown in my pending application #346,310, filed December 20, 1919; this I call "double crinkling", the paper stretching in any direction. These double crinkled ends are marked 17 and 18. I preferably make the body part and the ends integral, rather than join them by pasting or sewing. To close the lower end 18 of the lining, I gather the flexible bottom part 18 together, and tie or sew the ends, as at 19.

The lining is shown inserted in a barrel, as in Fig. 9. The flexible projecting part 17 may be folded down over the barrel mouth, as shown at 20, Fig. 10.

The barrel may be filled, which expands the body part 15 so as to close the gap around the lining. The longitudinal corrugations 16 stiffen the body, so that it will not slump or collapse, in the barrel. The corrugations allow the lining to adapt itself to the irregular staves of the barrel interior, when the barrel is filled.

The flexible ends may be made elastic in other ways than by treating them as explained. For example, they may be chemically treated, or softened in well known ways. The lining may also be water-proofed.

I claim as my invention:

A barrel lining composed of a longitudinally corrugated and longitudinally non-stretchable body portion, said lining having at least one of its ends double-creped whereby it is expansible and stretchable in all directions.

WILLIAM A. LORENZ.