

No. 726,762.

PATENTED APR. 28, 1903.

J. H. RIVERS.
STOPPER.

APPLICATION FILED JAN. 2, 1903.

NO MODEL.

Fig. 1.

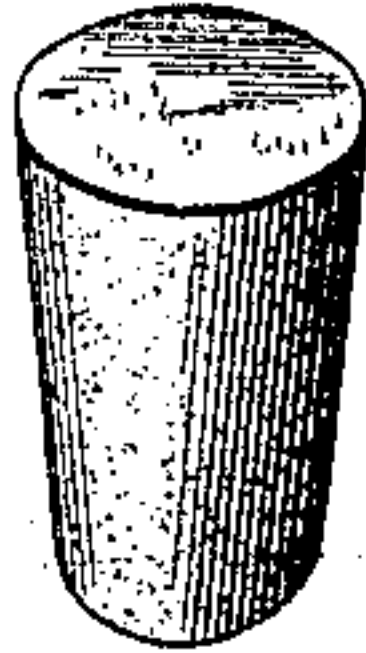
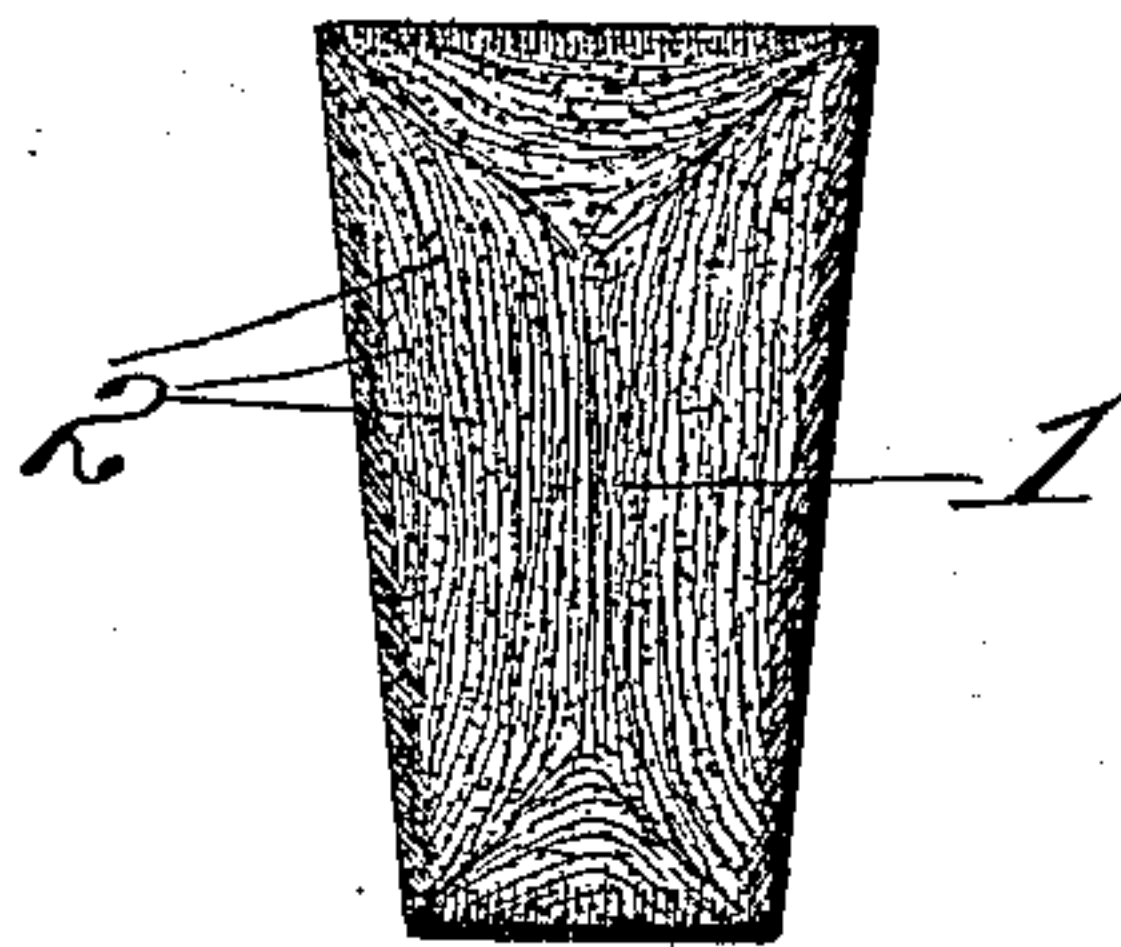


Fig. 2.



Witnesses:
Wm. H. Scott
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Inventor:
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by Bakerwell Cornwall
Attys.

UNITED STATES PATENT OFFICE.

JULIAN H. RIVERS, OF ST. LOUIS, MISSOURI, ASSIGNOR TO UNITED STATES FIBER STOPPER COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF SOUTH DAKOTA.

STOPPER.

SPECIFICATION forming part of Letters Patent No. 726,762, dated April 28, 1903.

Application filed January 2, 1903. Serial No. 137,525. (No model.)

To all whom it may concern:

Be it known that I, JULIAN H. RIVERS, a citizen of the United States, residing at St. Louis, Missouri, have invented a certain new and useful Improvement in Stoppers, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved bottle-stopper, and Fig. 2 is a vertical longitudinal sectional view through the same.

My invention relates to stoppers for bottles and the like, and more particularly to pulp stoppers—i. e., those formed from pulp.

My object is to produce a stopper which can be cheaply and conveniently manufactured and is possessed of great resiliency.

To these ends and also to improve generally upon articles of the character indicated my invention consists in the various matters hereinafter described and claimed.

It is my practice to make the stoppers from paper-pulp mixed with cellulose or granulated pith, 1 representing the paper fibers, and 2 the bodies or particles of cellulose. The granulated pith readily mixes with the paper-pulp, and the whole mixture is easily molded into the desired shape, the finished article being of such character that the paper fibers can yield to permit pressure to exert

itself upon the cellulose and the cellulose imparting greater resiliency to the stopper than it would possess were it made of the paper-pulp alone.

Obviously pulp made from other than paper can be employed, and substances other than cellulose can be mixed with the pulp in order to produce the desired result.

The stopper herein illustrated is preferably made by the method and apparatus described in applications filed by me of even date herewith and serially numbered 137,526 and 137,527, the granulated cellulose being suitably introduced into the paper-pulp before this pulp is fed to the forming-machine.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A pulp stopper formed of fibrous material mixed with bodies having greater resiliency than said fibrous material; substantially as described.

2. A pulp stopper formed of fibrous material mixed with cellulose; substantially as described.

3. A pulp stopper formed of paper mixed with cellulose; substantially as described.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 31st day of December, 1902.

JULIAN H. RIVERS.

Witnesses:

GALES P. MOORE,
GEORGE BAKEWELL.