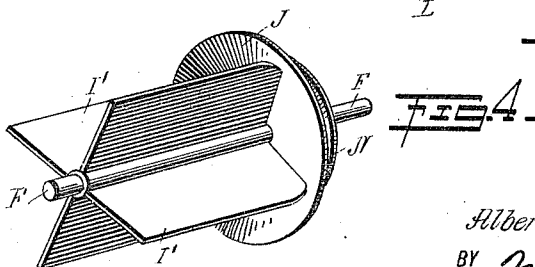
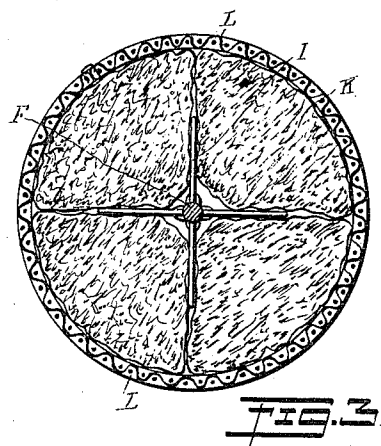
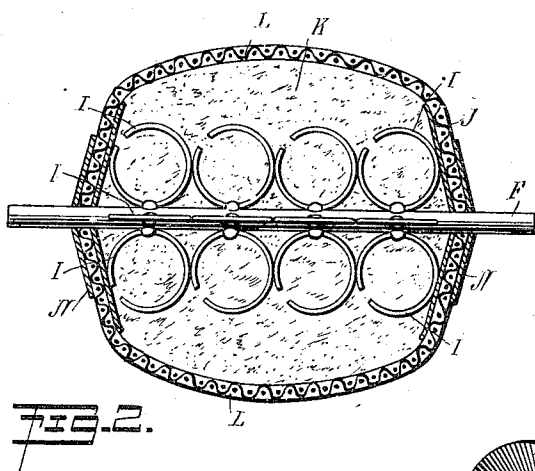
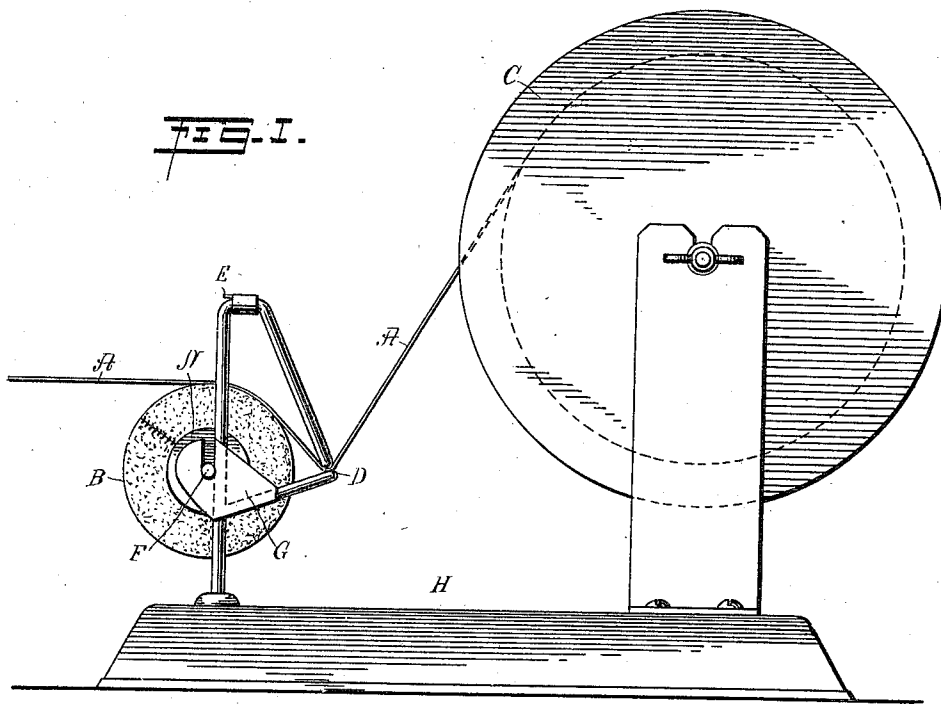


A. FACHS.
MOISTENING ROLL.
APPLICATION FILED JAN. 18, 1910.

972,607.

Patented Oct. 11, 1910.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ALBERT FACHS, OF NEW YORK, N. Y.

MOISTENING-ROLL.

972,607.

Specification of Letters Patent.

Patented Oct. 11, 1910.

Application filed January 19, 1910. Serial No. 538,903.

To all whom it may concern:

Be it known that I, ALBERT FACHS, a citizen of the United States, and a resident of the city of New York, Woodside, borough of Queens, in the county of Queens and State of New York, have invented a new and Improved Moistening-Roll, of which the following is a full, clear, and exact description.

10 The object of the invention is to provide a new and improved moistening roll, for use in machines employed for moistening gummed tape, and arranged to securely hold the sponges or other water absorbing material in place and to readily give off sufficient moisture to the gummed side of the tape on drawing the latter over the peripheral face of the roll, to thoroughly moisten the said gummed side.

20 For the purpose mentioned use is made of a core, formed on a shaft, provided with wings and end flanges for forming compartments for the receptacle of the sponges, inclosed within a fabric covering.

25 A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

30 Figure 1 is a side elevation of the moistening roll in position on the tape moistening machine; Fig. 2 is an enlarged longitudinal sectional elevation of the moistening roll; Fig. 3 is a cross section of the same; 35 and Fig. 4 is a perspective view of a modified form of the core for the moistening roll.

The gummed tape A, to be moistened by the moistening roll B, unwinds in the usual manner from a drum C, to pass through a 40 guideway D and then over the peripheral face of the moistening roll B, with the gummed side in contact with the moistening roll B. The tape A is drawn along to moisten a desired length, and then the moistened portion of the tape is drawn upward, 45 to be torn off on a cutter E, extending transversely above the moistening roll B.

50 The shaft F of the moistening roll B is journaled in suitable bearings G, mounted on the stand or frame H of the moistening machine, and on the shaft F are secured radially extending wings I and conical shaped end flanges J at the ends of the wings, to form with the latter compartments for the 55 reception of sponges K, extending beyond the outer edges of the wings I, to be in-

closed by a covering L, of felt or other suitable fabric material. The covering L also extends over the conical flanges J, and by this arrangement the sponges K are compactly held in the compartments formed by the wings I and the end flanges J. Each of the wings I is preferably made of split wings, arranged one alongside the other, and with the split near the top of the ring, 60 as plainly indicated in Fig. 2, so that the ring yields when the tape A is drawn over the peripheral face of the roll B, to insure a firm contact of the gumming face of the tape A, and thus cause a thorough moistening of the gummed face of the tape. As 65 shown in Fig. 4, each of the wings I' is made solid. By making the end flanges J conical, the ends of the sponges K are readily retained in place in the compartments and are prevented from extending in a lengthwise direction. The shaft F is provided near the ends with guide flanges N, 70 adjacent to the bearings G, to insure easy turning of the shaft F in the said bearings. 75

The moistening roll B when in use is from time to time dipped into water, so that it readily absorbs a large quantity of water, which is gradually given off to the gummed side of the tape A, when the latter is drawn 80 over the peripheral face of the roll, as previously explained. 85

It will be noticed that by constructing the roll with a core of the nature described, the roll is not liable to lose its shape when in use, especially as the strain is on but one section at a time. 90

It is understood that although I have shown and described the use of the roll for tape moistening machines, I do not limit myself to such use only, and instead of sponges any absorbing material may be employed. 95

Having thus described my invention, I claim as new and desire to secure by Letters Patent: 100

1. A moistening roll, comprising a core having wings and end flanges forming compartments, sponges placed in the said compartments, and a covering for inclosing the sponges. 105

2. A moistening roll core, comprising a shaft, wings on the said shaft, end flanges on the shaft and forming with the said wings compartments, and absorbing material in each of the said compartments. 110

3. A moistening roll core, comprising a shaft, wings extending radially on the said

shaft and formed of split rings, one alongside the other, end flanges on the said shaft to form with the said wings compartments, and an absorbing material in each of the
5 said compartments.

4. A moistening roll core, provided with a shaft, wings on the said shaft and yielding in a vertical direction relative to the said shaft, and absorbing material between the
10 said wings.

5. A moistening roll, comprising a shaft, wings extending radially on the said shaft and formed of split rings arranged one alongside the other, conical end flanges at

the ends of the said wings, an absorbing 15 material filling the spaces between the end flanges and wings, the absorbing material extending beyond the outer edges of the wings, and a covering inclosing the said absorbing material.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses. 20

ALBERT FACHS.

Witnesses:

THEO. G. HOSTER,
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