

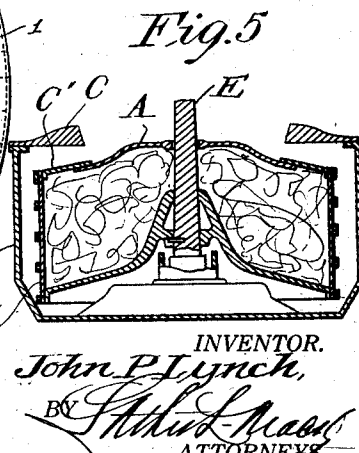
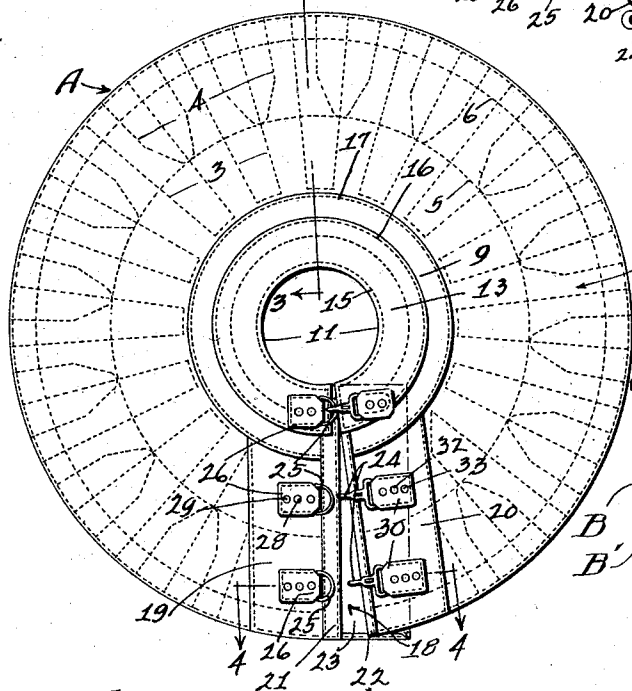
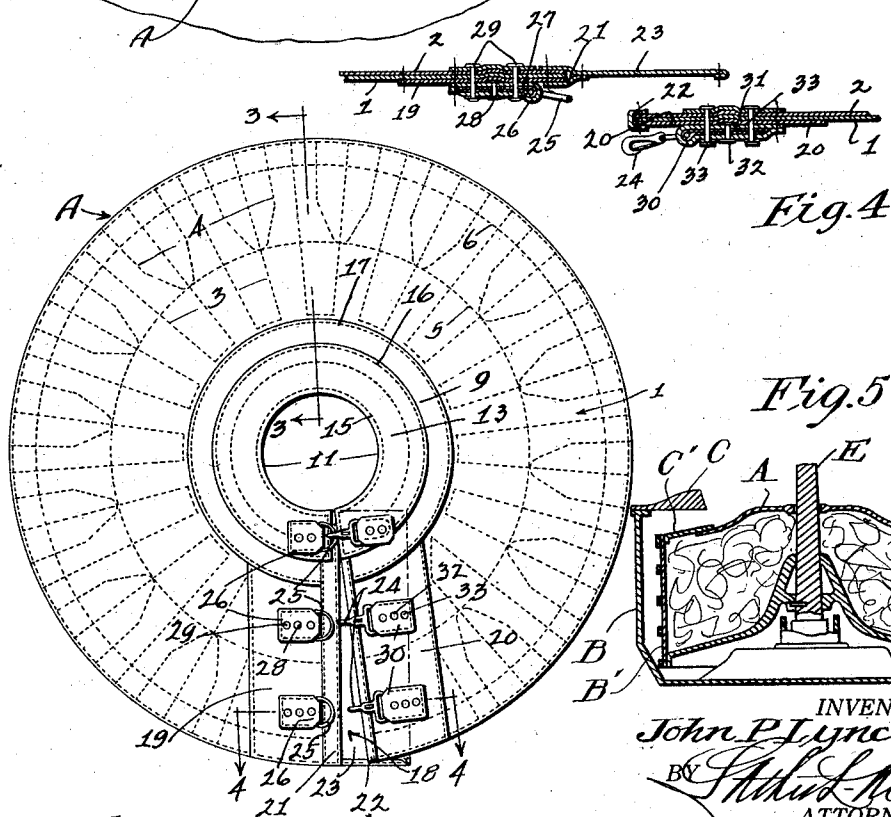
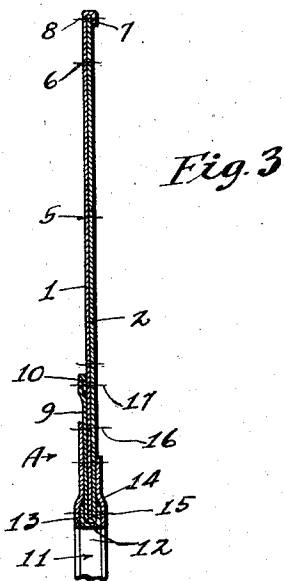
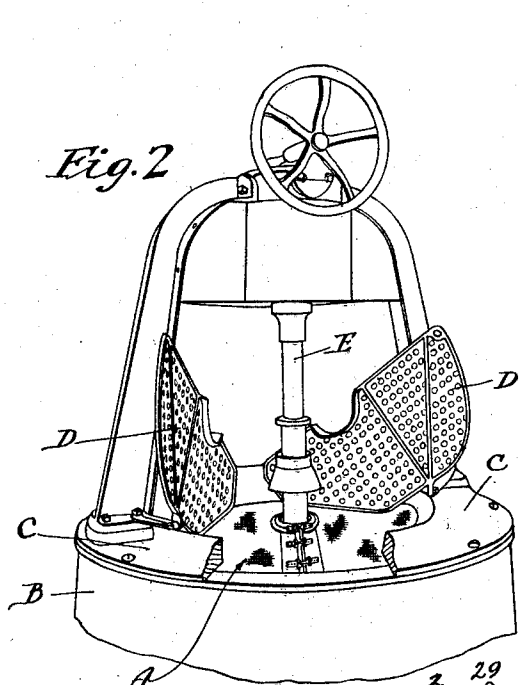
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EXTRACTOR COVER

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EXTRACTOR COVER

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This invention relates to covers for extractors such as are used laundries, dry cleaning plants, and the like, wherein the articles to be cleaned are rotated at high speed in a drying operation.

A principal object is to provide a flexible fabric cover adapted to be held in the top of an extractor bowl in such a manner that the articles will be retained in the bowl and prevented from removal therefrom while the extractor is in operation.

In the consideration of this invention it will be understood that due to the high speed of the extractors and the centrifugal force generated therein it is essential that suitable means be provided for preventing the outward thrust of the articles in the bowl of the extractor during the rotation thereof. Obviously, care must be taken in provision of means for this purpose not to tear or injure the clothing or articles contained in the extractor. To this end I have provided a flexible cover of fabric, preferably of heavy canvas, formed of two or more layers of material stitched together at a plurality of points and reinforced at the periphery and in the center, as hereinafter more fully explained.

In the description of my improved cover other objects of invention will appear. The accompanying drawing illustrates a preferred form of extractor cover constructed in accordance with my invention, but subject to modification within the scope of the appended claims, without departing from the spirit thereof. In said drawings,

Fig. 1 is a top plan view of an extractor cover embodying my improvements.

Fig. 2 is a fragmentary perspective view of a well known form of extractor with my cover shown in operative position therein.

Fig. 3 is a radial section of the cover on line 3—3 of Fig. 1.

Fig. 4 is a transverse section of the same on line 4—4 of Fig. 1.

Fig. 5 is a vertical section of an extractor showing my cover operatively held thereon.

As shown in the drawings, the flexible circular cover A is adapted to be supported in an extractor B so that the periphery thereof

will underlie the annular top C' of the extractor bowl B'. Said bowl is covered by a retaining ring C and a perforated cover composed of mating members D, D, as shown in Fig. 2. The extractor bowl B' is rotated by means of a power driven vertical shaft E, and the cover A is rotated with the bowl.

In order to provide sufficient stiffness and durability and yet to permit ample flexibility of the cover A, I prefer to form the cover of a pair or more of annular sheets 1 and 2 superposed one on the other and stitched together at a plurality of points 3, 3 and 4, 4 etc., in radial lines, as shown in Fig. 1. Also in circular lines 5 and 6 as shown therein.

The outer margin of the top sheet 1 is bent down over the outer edge of and under the marginal portion of the sheet 2, as at 7, and is stitched at 8. The lower sheet 2 is bent around the inner edge of the upper sheet 1 and thence over said sheet at 9, and the outer edge thereof is underturned as at 10, thus providing three laminations of material adjacent the central aperture 11 in the cover, through which the shaft E is adapted to extend when the cover is in use.

The inner edge of the composite cover A is substantially reinforced by means of a binding strip 12 of leather or the like, the edges of which are bent over the opposite sides of the member 2 at its inner margin, as shown in Fig. 3. Other leather reinforcing strips 13 and 14 of annular form are attached to the top and bottom sides of the cover adjacent and outwardly of the opening 11 and the members 12, 13 and 14 are stitched together and to the fabric members 1 and 2 in a circular line 15, while the members 13 and 14 are additionally stitched to the fabric in circular lines 16 and 17.

It will be noted by reference to Fig. 1 that the cover A is split in a radial line at 18 and the portions of the cover on opposite sides of the line of separation are reinforced by fabric strips 19 and 20 which are stitched to the top sides of the sheet 1. Also binding strips 21 and 22 are attached to the adjacent edges and a flap 23 is attached to one side and adapted to underlie the other side of the cover at the opening in the cover. When the cover

is in use, the ends are adapted to be fastened together by means of suitable snap fasteners, as at 24, which engage rings 25, or otherwise. The rings are held in heavy leather straps 26, the end portions of which are folded over one upon the other, and thin metal straps 27 are inserted therebetween, as shown in Fig. 4. The metal straps 27 are riveted to the leather straps 26 and the leather straps are riveted to the cover by a pair or more of rivets 29. The metal reinforcing straps 27 prevent the rivets from tearing out and add durability to the cover. The snaps 24 are similarly attached to the opposite end of the cover by means of leather straps 30, metal straps 31, and rivets 32 and 33.

The opening 18 in the cover permits the ready insertion of the cover in the bowl of the extractor and the removal therefrom at will.

In operation, it will be observed that the outer perforated covers D, D are first removed from position while the fabric cover A is opened and centered on the shaft E of the extractor, after which the edges of the fabric cover are forced downwardly into position beneath the annular top C' of the bowl.

Thereupon the snap fasteners 24 are engaged with the rings 25 and the covers D, D are replaced in operative position. During the rotation of the bowl of the extractor with the articles of clothing or other articles therein, the tendency of the articles to displacement from the bowl by reason of the centrifugal force generated is overcome and the cover A will serve to neatly hold the articles in the bowl during a liquid extracting operation. The flexibility of the cover facilitates the insertion and removal of the cover in and from position of use respectively.

It will be observed that the cover is reinforced at points where the greatest wear is occasioned in its use, and the cover constructed as shown and described herein is more durable than other covers heretofore known and used.

What I claim is:

1. A device of the character described comprising a flexible fabric cover of circular form and having a radial split and a central opening therein, means for reinforcing the margin of the cover at said opening, and means for detachably connecting the edges of the cover adjacent said split.

2. A device as characterized in claim 1, including a flap attached to one of the edges of the cover adjacent the split and underlying the adjacent portion when the edges are attached together.

3. An extractor cover comprising a plurality of circular sheets of fabric having a central opening therein and stitched together in circular and radial lines, said sheets being split radially from the inner to the outer margins thereof, circular reinforcing members

overlying the inner margin at said opening and attached to the opposite sides of the cover, and means on opposite sides of said split for detachably connecting the ends of the cover together, for the purpose described.

4. An extractor cover formed of a plurality of sheets of fabric stitched together and provided with a central opening, and separable edge portions radially disposed relative to said opening, means for reinforcing the inner and outer margins of the cover, means for reinforcing the adjacent ends of the cover, and means for detachably connecting the ends of the cover together for use.

5. An extractor cover provided with a flexible body formed of a plurality of layers of fabric cut into circular form provided with a central opening and having radially disposed end portions, one of which end portions overlaps the other end portion, and means for detachably connecting said end portions together for use.

6. An extractor cover having a circular body with a central opening therein composed of a plurality of layers of fabric with separable end portions adapted to meet on a radial line from the axis of the cover, and means for detachably connecting said end portions together when the cover is in use.

7. An extractor cover as characterized in claim 6, including a flap attached to one of said end portions and adapted to overlap the other end portion for reinforcing the cover at its ends.

8. An extractor cover as characterized in claim 6, including split annular reinforcing members surrounding said opening and overlying and attached to the top and bottom sides of said cover.

9. An extractor cover of circular form having a central opening therein composed of a plurality of sheets of fabric attached together and radially split to provide meeting end portions, means for detachably connecting said end portions together, a binding strip extended around the periphery of said opening and overlying the opposite sides of and attached to said cover, and circular reinforcing strips attached to the opposite sides of the cover and overlying the sides of said binding strip.

10. An extractor cover as characterized in claim 9, including means for reinforcing the meeting ends of said fabric sheets and a flap formed on one of said ends and adapted to overlap the other end for reinforcing the joint between the ends of the cover.

11. In a centrifugal extractor, the combination with a rotatable bowl having an annular top, of a flexible cover arranged with its periphery underlying the inner periphery of the top and forming a closure for the bowl, said bowl provided with a central spindle extended upwardly therethru, said cover having a central opening for receiving said spin-

dle, and slit radially, whereby the same may be operatively positioned on and removed from the bowl, and means for fastening the edges of the cover at said slit together, for the purpose described.

12. In a centrifugal extractor, the combination with a rotatable bowl having a top provided with an enlarged central opening, a spindle extending upwardly thru said opening, a flexible cover having a central opening for receiving said spindle and arranged with its periphery underlying the top of said bowl and forming a closure for the bowl, said cover being radially split from the central opening therein to its periphery and provided with a flap at one side of said split overlapping the other side thereof, means for reinforcing the cover around said opening and on opposite sides of said split, and means for fastening the opposite portions of said cover together, for the purpose described.

JOHN P. LYNCH.