

Oct. 26, 1937.

P. O. KELSEY

2,097,124

DRIER

Filed March 29, 1937

Fig. 1.

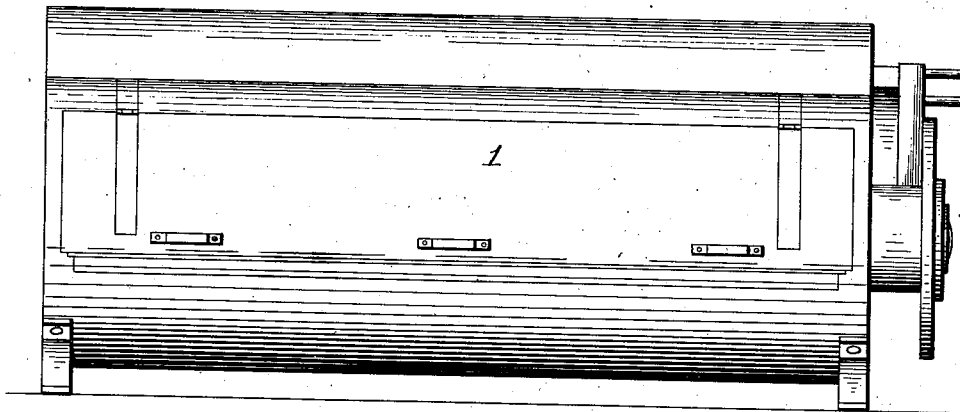


Fig. 5.

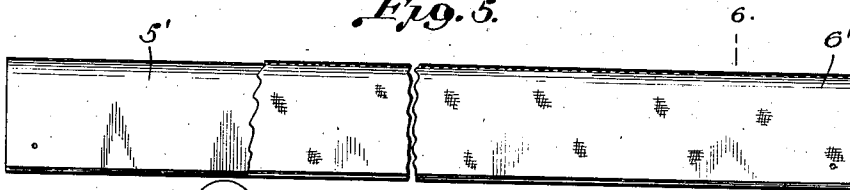


Fig. 2.

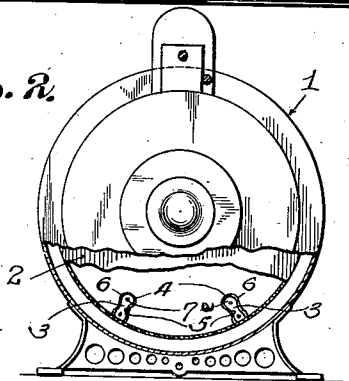


Fig. 6.

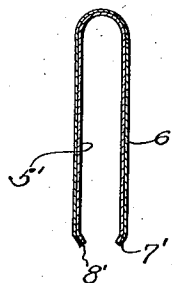


Fig. 4.

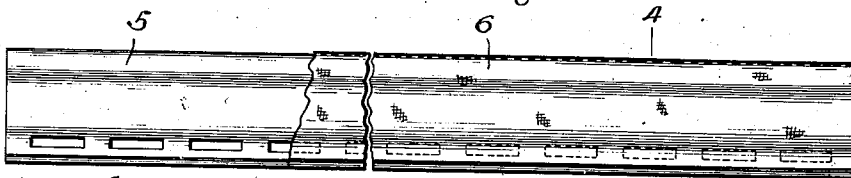
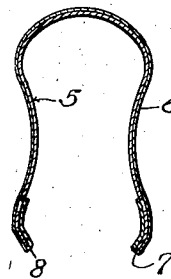


Fig. 3.

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UNITED STATES PATENT OFFICE

2,097,124

DRIER

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Application March 29, 1937, Serial No. 133,684

5 Claims. (Cl. 259-51)

My invention relates to tumbler driers, and more especially to the fabric covered sheet metal members which are detachably secured to ribs on the oscillating or rotating cylinder.

5 The custom has been to permanently secure the ribs to the cylinder and permanently secure the steel frame members to the ribs by rivets or like securing means, thereby consuming much time in removing and replacing the frames when repair or replacement is necessary.

10 The object of my invention is to provide an easily attachable and detachable frame member which can be readily removed, repaired and replaced at a great saving of time and labor.

15 In the drawing, Fig. 1 is a side view of the tumbler drier,

Fig. 2 is a side elevation, partly broken away to show the preferred form of the cylinder, ribs and fabric covered member in place,

20 Fig. 3 is a side view, and Fig. 4 is an end view of the fabric covered member, and

Figs. 5 and 6 are side and end views of a modified form of the fabric covered member.

25 In the drawing, the numeral 1 designates a common and well known form of tumbler drier which is provided with a cylinder 2, having permanently fastened ribs 3, which act as supports for the fabric covered members 4. The members 4 comprise a metallic frame work 5 of sheet material, such as steel or galvanized sheet iron, covered, as shown in Figs. 3 and 4 with a durable fabric covering, such as canvas or duck. The fabric may be secured to the frame 5 in any desired manner. The slots shown in the frame in 35 Fig. 3 enable stitching of the duck to hold it in place on the metallic frame 5, when the duck is lapped over the free ends of the frame to a point at or above the slots, or the lapped ends may be secured by gluing to the frame. The frame 5 may be padded as much or as little as desired, especially at the rounded portions before the duck is applied. The frame is bent into a substantially U-shaped form, as shown in Figs. 4 and 6, in such a manner that its free ends are sufficiently flexible to be sprung apart to pass over the enlarged end 7a of the rib 3. The frame stays in place due to its form and friction having a clamping action both at the enlarged rounded portions and at the ends 7 and 8.

50 Many other shapes may be glued to the frame members to fit differently shaped ribs.

The frame 5' and covering 6' is substantially the same as that shown at 5 and 6 of Figs. 3 and 4

and merely differs in shape to fit a differently shaped rib 3, and in this form the clamping action occurs at 7' and 8'. Some of the advantages of using a fabric cover on the frame are as follows:

It prevents wadding or binding of the clothes 5 being dried in the tumbler, thus cutting down the time necessary to dry the clothes and also cutting down the time required to press them after drying.

It also cuts down the breakage of buttons and 10 saves the expense of replacing them.

The device is therefore an improvement in the art and is easy and economical to manufacture, and saves time and labor when replacement is necessary.

15 Although the device has been described for use in tumbler driers it may be used in washing machines or any other desired device provided with ribs requiring a frame such as that shown at 5. The frame 4 may be made of any desired sheet 20 material and the covering may be any suitable durable fabric.

I claim:

1. In a tumbler drier of the type described which is provided with a cylinder having internal 25 longitudinal ribs, the combination of a substantially U-shaped frame having its free ends sufficiently flexible to spring over the ribs and be held in place, and a fabric cover for the frame.

2. In a tumbler drier of the type described 30 which is provided with a cylinder having internal longitudinal ribs on the inside of the cylinder, the combination of a substantially U-shaped frame having its free ends sufficiently flexible to spring over the ribs and be clamped in place, 35 and a fabric cover for the frame enveloping the outer surface of the frame.

3. A device as claimed in claim 2, in which the ends of the fabric cover are lapped over the 40 free ends of the frame.

4. In a tumbler drier of the type described having a cylinder provided with internal longitudinal ribs, a substantially U-shaped frame covered with a fabric and having its free ends sufficiently flexible to spring over the ribs and be held in place. 45

5. In a tumbler drier of the type described having a cylinder provided with internal longitudinal ribs extending along the inner sides of the cylinder, the combination of a frame having portions sufficiently flexible to spring over the ribs and be 50 held in place and a fabric cover for the frame.

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