

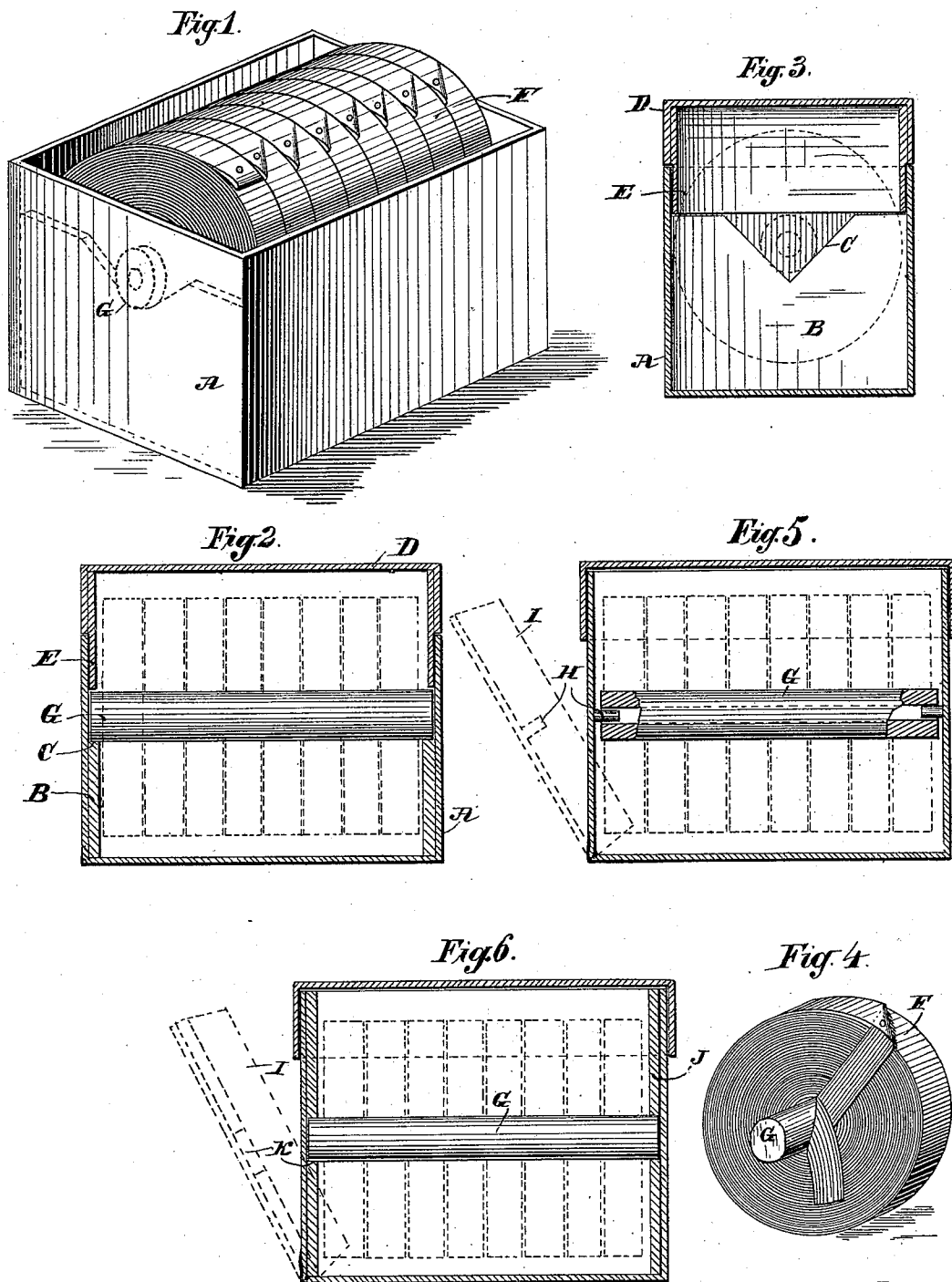
(No Model.)

J. KELEHER.

BRAID ROLL AND CASE THEREFOR.

No. 354,984.

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UNITED STATES PATENT OFFICE.

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BRAID ROLL AND CASE THEREFOR.

SPECIFICATION forming part of Letters Patent No. 354,984, dated December 28, 1886.

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To all whom it may concern:

Be it known that I, JAMES KELEHER, of Willimantic, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Braid Rolls and Cases Therefor, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates to an improved compound roll of braid, tape, or similar material, and to boxes or cases designed for use in connection therewith. There are features requisite in the construction of such rolls and boxes that I will first explain, as they constitute the objects or purposes of the invention.

First, it is desirable that the braid be in long and continuous pieces, and, in order to economize space and make the most convenient form of package, the braid should be wound upon a headless axis in a series of individual rolls of the width of the braid, arranged side by side along the axis until it is filled. This form of winding and the absence of any heads or similar projection from the axis permit the edges of the braid in any of the individual rolls to be readily examined by separating the rolls from one another without the necessity of unwinding the braid, it being understood that the quality of such goods is mainly judged by the form and appearance of their edges. This method of winding is also availed of because it produces a compound roll that exhibits the goods to the best advantage. Rolls thus produced, though finished articles in themselves and an improvement on the common methods of mounting such goods, are preferably provided with cases or boxes to support and protect them while being exhibited and shipped, as also while the goods are being consumed by the retail purchaser. Such boxes should be of rectangular shape, so that they may be securely and regularly packed in larger cases, and also so that when open they will not easily overturn and throw out their contents, as when exhibiting the goods, or when the goods are being used from them. They should have bearings for pivotally supporting the ends of the axis of the rolls, so that the rolls may without handling be turned for examination by a purchaser or unwound by a consumer as required by use. It is also de-

sirable that the roll should be suspended in the box, so as to be not only readily removable therefrom when the lid is off, but also so held in its bearings when the box is closed as to prevent it being thrown or shaken from its bearings during shipment, and the braid thereby soiled or its finish dulled by rubbing against the box. I am aware that braid has been wound in a similar manner on spools having heads; but in this case the edges of the braid cannot be examined without unwinding it, as the heads of the spool cover the ends of the compound roll, and the various individual rolls composing the compound roll cannot be separated so as to expose the edges of the braid; also, like material has been similarly wound upon a card, which, however, cannot practically be pivotally supported so as to be revolved for examination and use; again, separate rolls of different kinds or widths of goods have been pivotally supported upon a single axis in large shipping or storage boxes; but here the rolls do not constitute a continuous length of one kind of material, and the axis carrying these separate rolls is fixed in its bearings, and single rolls of goods have been in various ways pivotally hung in boxes of the same approximate size.

As an improvement obviating the objections to these various forms my invention consists, first, of a compound roll formed of braid, tape, or similar material wound upon a headless axis in a series of individual rolls of uniform size arranged side by side along the axis; second, the invention consists of a box for supporting and protecting such a roll, which box is rectangular in form and is provided at its inside ends with bearings for the axis of the roll, having also a lid constructed to rest upon such axis to hold the roll in place in its bearings.

Referring to the drawings, Figure 1 is a perspective view of a box containing a braid roll made and supported in accordance with my invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a cross-section looking inwardly toward one end of the box. Fig. 4 is a perspective view of a portion of the axis of the roll and one of the individual rolls composing the same, showing the method of taking the braid from one of the individual rolls

to another; and Figs. 5 and 6 show modified forms of the box.

Referring to the views in detail and first to Figs. 1, 2, and 3, A represents the box, which usually is of substantially the form and shape shown, being made of pasteboard or any other suitable material.

B represents the supports for the axis of the roll, these consisting, preferably, of auxiliary pieces placed in the ends of the box and extending to the bottom thereof, and provided with V-shaped bearings C, arranged so as to be about midway between the top and bottom of the box, as also between the sides thereof. This shape of bearing is preferred, as it serves to direct the roll to the middle of the box, it only being required that the roll be dropped in the box, when it will find its own bearings.

D is the lid of the box, and E the flange or slide part thereof. In this case this flange part of the lid is preferably constructed to slide inside the body of the box, so that it will enter the box sufficiently to rest (Fig. 3) upon the top of the axis of the roll, and thereby hold the roll from leaving its bearings and coming in contact with the top and sides of the box during shipment or when being otherwise handled.

F represents the compound braid roll, which is composed of a continuous piece of braid wound into various individual rolls of the width of the braid of uniform diameter and arranged side by side on a common axis, G. The method of winding is to form one of the individual rolls, then pin the braid and fold it down the side of such roll to the axis, Fig. 4, where it is folded upon and around the axle, and a new winding begun. The axis G projects sufficiently at each end of the completed roll to form a short journal adapted to rest upon the bearings C, the length of the axis being such as to fit between the ends of the box closely enough to prevent the roll having unnecessary endwise movement.

It is preferred that the lid should be of practically the depth shown, this being for the purpose of having a large part of the roll exposed, so that generally it can be examined without removing it from the box.

In Fig. 5 I show another method of supporting the roll, so that it cannot leave its bearings, which may be used in lieu of the open

bearings and flanged lid. Here the bearings of the roll consist of pins H, secured in proper position to the ends of the box and arranged to enter a central hole in the axis G. One end of the box is hinged to the bottom, and has sides I, which slide upon the body of the box and close the corners, such end being capable of swinging over, as shown in dotted lines, to permit the roll being placed upon the pins H or removed therefrom. In this case the lid D is constructed to slide upon the outside of the body of the box, so that it will serve to hold the hinged end in place, it being so placed upon the bottom of the box for the same purpose when the box is open and it is not wished to remove the roll.

In Fig. 6 substantially the same construction is shown as that of Fig. 5, the only difference being that to the ends of the box are secured the supporting-pieces J, which are provided with circular openings or bearings K for the ends of such axis.

Braid prepared and packed this way may be shipped without wear and abrasion and soiling; it is presented to the customer in a manner that permits of its being exhibited to the best advantage and of its being thoroughly examined without unwinding or undue handling; and it is in the most convenient form for the convenience of tailors and other such consumers, it being readily unwound as required for use, and, being inclosed from dust and wear, it may stand upon shelves or working-tables or in other convenient places without needing further cover to protect it.

What is claimed as new is—

1. A compound braid roll formed of a continuous piece of braid wound upon a headless axis into a series of individual rolls arranged side by side and of uniform diameter.

2. In combination, a compound braid roll formed upon a headless axis and a rectangular box for pivotally supporting the same, which is provided with bearings upon its inside ends for the axis of the roll, and the lid of which is constructed to slide within the body of the box and hold the axis of the roll in its bearings.

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