J. H. CHASE.

NOTE SHEET SPOOL.

APPLICATION FILED NOV. 11, 1916.

1,260,512

Patented Mar. 26, 1918.

FIG. 1

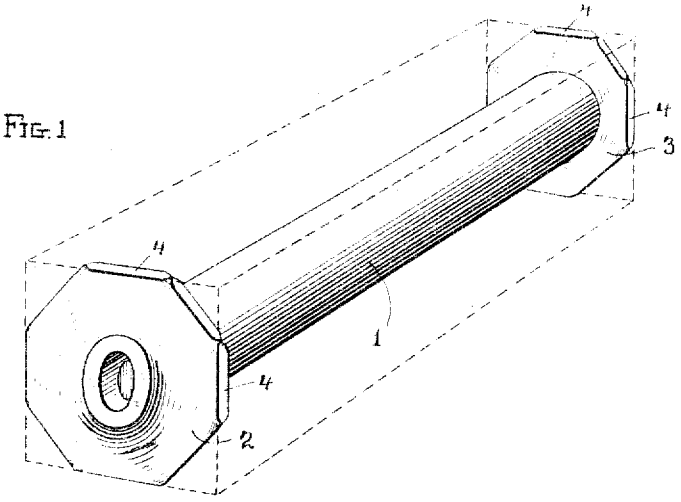



FIG. 2

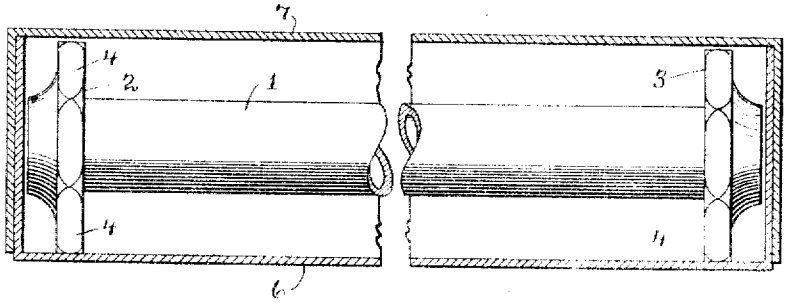
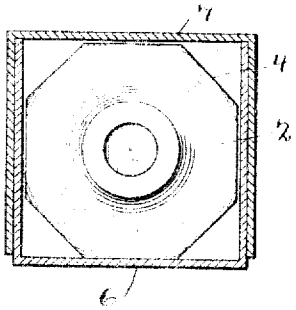



FIG. 3




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# UNITED STATES PATENT OFFICE.

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## NOTE-SHEET SPOOL.

1,260,512. Specification of Letters Patent. Patented Mar. 26, 1918.

Application filed November 11, 1916. Serial No. 130,727.

*To all whom it may concern:*

Be it known that I, JOSEPH H. CHASE, a citizen of the United States, a resident of the city of New York, in the county and State of New York, have invented an Improvement in Note-Sheet Spools, of which the following is a specification.

This invention relates to music roll spools such as are commonly used in player-pianos or the like to carry the music roll or note sheet. The principal object of the invention is to improve the construction of such spools so that they may be more easily handled and may be more economically packed for shipment or storage.

For the purpose of illustration and description, one embodiment of the invention is shown in the accompanying drawings, and therein

Figure 1 is a perspective view of a note sheet spool embodying the invention, together with a box therefor, shown in dotted lines;

Fig. 2 is a central longitudinal section through the note sheet spool and box; and

Fig. 3 is a cross section through the containing box adjacent the end of the spool.

In the handling of music rolls of the usual construction it is often necessary to exercise great care when laying them down upon any smooth surface in order that they may not roll from the top of the table, cabinet or the like upon which they may happen to be placed. This is due to the circular flanges of the note sheet spool. Music rolls are usually packed in small boxes approximating in interior cross section the diameter of the end flanges of the spool. It has been observed that these boxes are very apt to break through where the periphery of the end flange contacts with the bottom of the box. The note sheet spool is generally entirely supported within the box by contact of the spool flanges with the bottom of the box at only two points. When the box containing its spool is roughly handled the note sheet spool, being much heavier than the box, tends to deliver a concentrated blow upon the two points where the flanges contact with the bottom of the box. To the limited area of contact, therefore, may be attributed the frequent injury of spool boxes. The present invention seeks to overcome the difficulties here suggested. The means herein shown for accomplishing the desired result will now be described.

Fig. 1 of the drawings shows a note sheet spool embodying the present invention and therein the spool comprises a spindle 1 having end flanges 2 and 3 fastened thereto in any suitable manner. The usual recesses are provided in the hubs of the flanges for engagement by the usual shafts journaled in the spool box of a piano. The periphery of the spool flange is herein shown to be irregular, and specifically in the drawings it is octagonal in shape, with straight portions 4 forming chords of a circle whose center is at the axis of the spool. It will be readily understood that a note sheet spool provided with such flanges will not readily roll along the surface of a table or the like, but will remain substantially in the position in which it is first placed.

Referring to the second aspect of the invention: The shape of the flange herein shown enables boxes of smaller cross section to be used with this type of music roll, than could be used if the end flanges were circular as is generally the case. This results in an economy of box material, and furthermore, as shown in Fig. 3, the spool flanges will have a substantial area of contact with the bottom, sides and top of the containing box. Boxes for music rolls are generally made in two parts, U shaped in cross section, as also shown in Fig. 3; the box proper being therein indicated by 6 and the cover by 7. Thus it will be apparent that when the music roll within its box is roughly handled the force of the blow delivered by the roll upon the bottom of the box will be distributed over a substantial area, and that this condition will greatly minimize the danger of breaking the material of the box.

It is to be understood that the present invention may be variously modified and embodied within the scope of the subjoined claims.

I claim as my invention:

1. A note sheet spool having polygonal end flanges, said spool being adapted to fit

within a container of square cross-section, thereby providing substantial areas of contact between said end flanges and the interior of said container.

2. A note sheet spool having octagonal end flanges, said spool being adapted to fit within a container of square cross-section, thereby providing substantial areas of contact between said end flanges and the interior of the container.

In testimony whereof, I have signed my name to this specification this 9th day of November, 1916.

JOSEPH H. CHASE.