

Feb. 17, 1942.

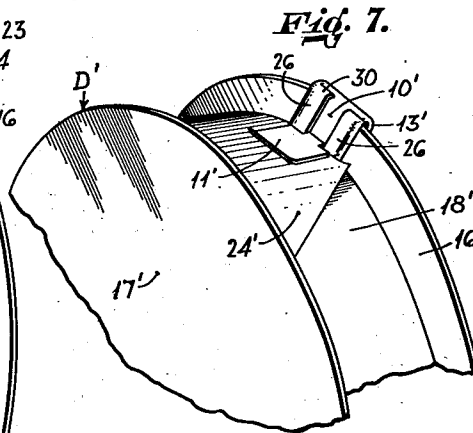
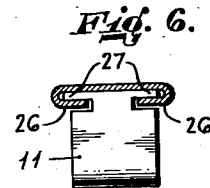
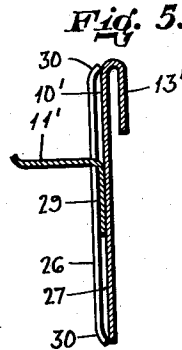
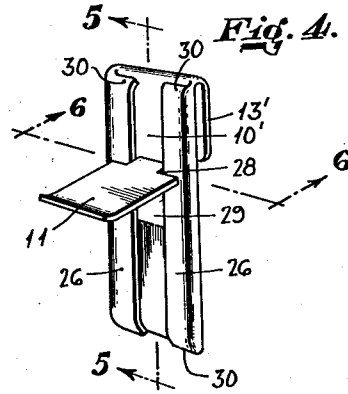
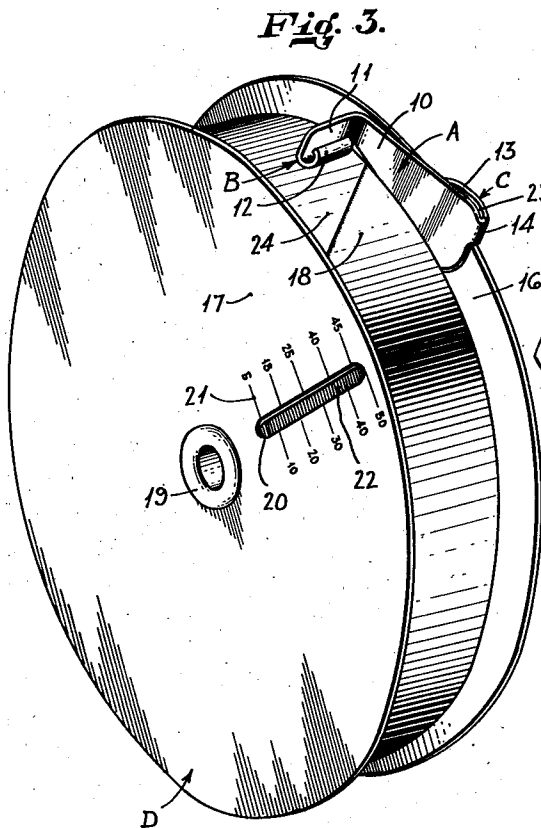
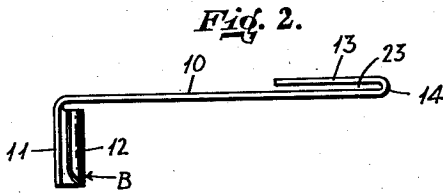
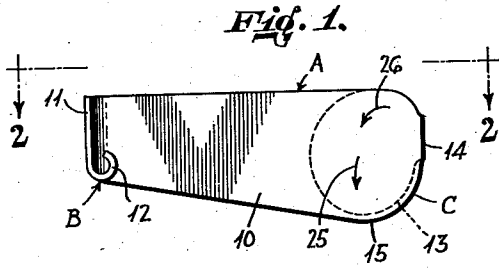
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2,273,701

NARROW FABRIC HOLDER DEVICE

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2 Sheets-Sheet 1



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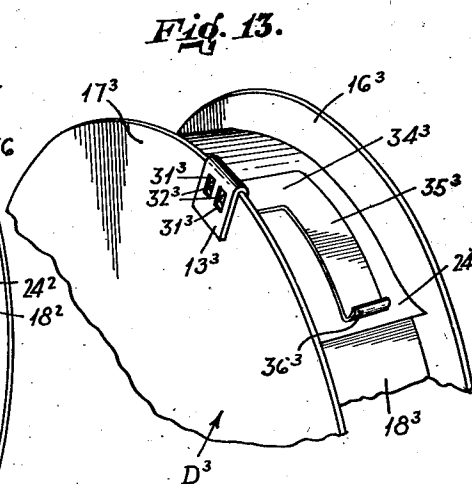
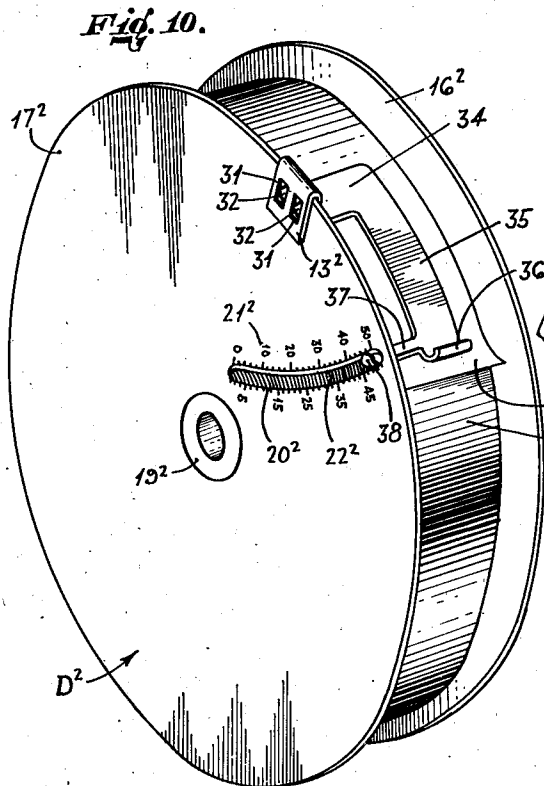
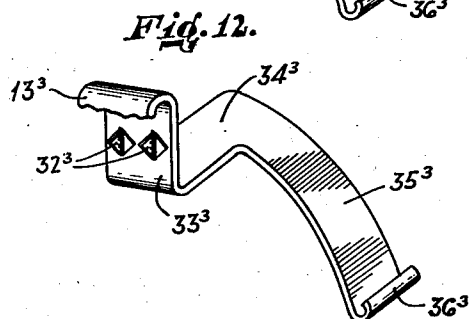
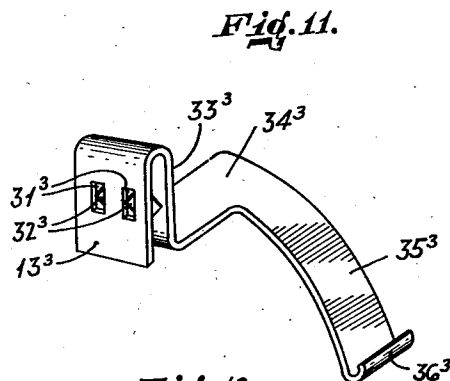
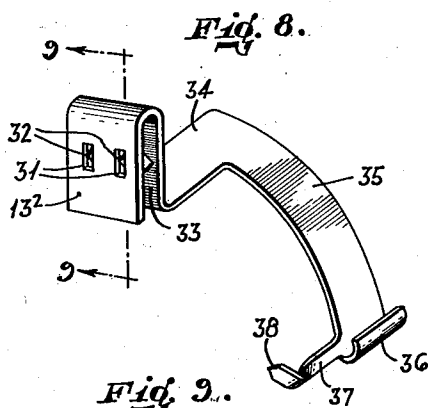
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NARROW FABRIC HOLDER DEVICE

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2 Sheets-Sheet 2



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NARROW FABRIC HOLDER DEVICE

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Application August 22, 1939, Serial No. 291,295

8 Claims. (Cl. 33—128)

The present invention relates to reels for narrow fabrics and particularly relates to clips which may be utilized in holding narrow fabrics in position upon the reels.

Although not specifically limited thereto, the present invention will be particularly described in connection with its application to reels, coils or rolls of narrow fabrics, such as Cellophane, braids, woven ribbon, tapes, thin sheet metal strips, and so forth.

The present invention will be illustratively described in connection with reels having a central core and two side flanges between which the narrow fabric is coiled or wound.

To hold the ends of the ribbon on these reels or flanged rollers, it has not been found most satisfactory to insert a pin since the pin will often mar or deface a considerable amount of ribbon, particularly where there are repeated insertions of the pin as measured amounts of the ribbon are withdrawn.

Moreover, there are many types of narrow fabrics, such as metal and Cellophane, which are not susceptible to being engaged by a pin and which it is difficult to hold in position.

It is, therefore, among the objects of the present invention to provide an improved simple, inexpensive and readily detachable or attachable clip for spools or reels of narrow fabrics which may be readily used in connection with a flanged type spool with assurance that the fabric will be held in position and will not be permitted to unwind, and at the same time, will not be defaced or marred.

Another object is to provide an improved and readily detachable holder device which may be readily and inexpensively stamped out of sheet metal and which may be of such an inexpensive manufacture to enable the clip to be readily discarded after each usage.

Still further objects and advantages will appear from the more detailed description set forth below, it being understood, however, that this more detailed description is given by way of illustration since various changes therein may be made by those skilled in the art without departing from the scope and spirit of the invention.

According to one preferred embodiment of the present invention, the clip is formed of a single sheet metal stamping for example, made of sheet brass or other sheet metals, having an outstanding finger at one end to contact and frictionally grip the end of the ribbon and having a double plate member at the other end transversely lo-

cated in respect to said frictional finger, said double plate member serving frictionally to grip the flange of the reel and being adapted to turn inwardly as the ribbon is removed.

The flange gripping portions are formed in such a way that the clip may be moved inwardly to follow the ribbon reel as it becomes of increased diameter upon consumption.

In an alternative embodiment, the double plate element serving to grip the flange may be provided with out-turned fingers to cut into or firmly grip the flange and the double plate element may be provided with teeth which serve as such gripping means.

Although not generally desirable, the contact finger may be provided with an outstanding arm or pointer to fit into the slot of the wall of the reel or in the flange of the reel which will indicate the amount of ribbon on the reel and/or the amount of ribbon which has been consumed.

Referring to the drawings which illustrate several of the various possible embodiments of the present invention, but to which the present invention is by no means restricted since the drawings are merely by way of illustration and not by way of limitation.

Figures 1 to 3 illustrate one embodiment of the present invention, Figure 1 being a top plan view; Figure 2 being a side view upon the line 2—2 of Figure 1 and Figure 3 being a perspective view illustrating the attachment of the device of Figures 1 and 2 to the flange of the reel.

Figures 4 to 7 illustrate another embodiment, Figure 4 being a side perspective view; Figures 5 and 6 being respectively longitudinal and transverse sectional views on the lines 5—5 and 6—6 of Figure 4; and Figure 7 illustrating the attachment of the device of Figures 4 to 6 to the flange of a ribbon reel.

Figures 8 to 10 show still another embodiment, Figure 8 showing this device in perspective view; Figure 9 showing a side section upon the line 9—9 of Figure 8 and Figure 10 showing the clip attached to the flange of the reel.

Figures 11 to 13 show another embodiment, Figure 11 being a top perspective view, Figure 12 being a top perspective view similar to Figure 11 with a part of the gripping construction broken away and Figure 13 showing the clip applied to the flanged reel.

Referring to the embodiment of Figures 1 to 3, the clip A is provided with a contact finger B and a flange or double plate grip C. The base or extension or plate 10 made of thin sheet metal,

such as brass or stainless steel, has an upturned portion 11, the edge of which is turned over at 12 and it is also provided with a plate 13 turned over at 14 from the plate 10. The edge 15 may be slightly outturned from the base 10 so as to enable the clip to be pressed more readily onto the flange 16 of the reel D, as shown in Figure 3.

As shown in Figure 3, the reel D is provided with the flanges 16 and 17 with the ribbon coil 18 and with the core 19. The flange 17 is provided with a radial slot 20 having the graduations 21 indicating the amount of ribbon, as shown at 22, left upon the reel.

The spacing, as indicated at 23, is slightly less than the thickness of the flange 16 and the plates 13 and 10 are bent resiliently toward each other at 14 so that there will be a frictional grip.

The turned portion 12 of the finger 11 will closely contact the end of the ribbon 24, as indicated in Figure 3.

It is thus apparent that the clip A may be inexpensively stamped out of a single piece of metal and readily utilized.

It will be noted that the shape of the plate 13 and the position of the bend 14 are such that the clip A may be inserted upon the paper in the direction indicated by the arrow 25 and then the finger 11 with the contact portion 12 may be turned to follow the ribbon 24 in the direction indicated by the arrow 26.

In the embodiment of Figures 4 to 7 (similarly functioning parts being referred to by the same numerals and letters, however, primed), the plate 13' has an elongated extension 10', the sides of which are turned in, as indicated at 26, to form a guideway 27.

The finger 11' is cut out, as indicated at 28 to receive the flanges 26 and it has a right angular flange 29 which fits into said guideways 27, as shown in Figures 5 and 6.

Preferably, the spacing between the flanges forming the guideways 27 is such that the flange 29 will be held tightly in said guideway.

The flanges are bent downwardly, as indicated at 30 at their end portions to lock the sliding finger 11' therein.

In the embodiment of Figures 8 to 10 (similarly functioning parts being indicated by the same numerals provided, however, with a superior "2"), the plate 13² is provided with the slots 31 which correspond to the tangs 32 pressed up from the plate 33 opposing the plate 13².

The plate 22 is provided with the arm 34 which has a downwardly curved portion 35 with a curled contact portion 36.

The contact portion 36 may be provided with a finger 37 having a point 38, which point may project into a curved slot 20² upon the flange 17².

The slot 20² is provided with the graduations 21². A series of these slots 20² may be provided if the flange 17² is fixed or the flange 17² may be made movable in respect to the thimble 19² so that the finger or curled portion 36 will always contact the end of the ribbon 24² with the pointer in the slot 20².

The devices shown in Figures 8 to 10 may also be conveniently stamped out of sheet metal and the points 32 may grip the flange 17² so as to hold them in position without, at the same time, preventing the curled portion 36 from following the ribbon as it is uncoiled and sold.

The device of Figures 11 to 13 is very similar to that of Figures 8 to 10 (similarly functioning parts being indicated with the same numerals

and letters provided however with a superior "3").

The clips, as shown in Figures 1 to 13, are inexpensive to manufacture, may be readily used in connection with the usual flange type of ribbon, Cellophane, braid or narrow fabric reel or holder and they do not require any particular skill or adjustment on the part of the sales person or attendant.

The adjustment of the contact finger against the ribbon end is substantially automatic.

Although the clip of the present invention has been particularly described in connection with ribbons, tapes, and so forth, of a woven nature, it is obviously also applicable to reels carrying motion picture film, Cellophane strips, or even metal strips.

It is apparent the specific illustrations above shown have been given by way of illustration and not by way of limitation and that the structures above described are subject to wide variation and modification without departing from the scope or intent of the invention all of which variations and modifications are to be included within the scope of the present invention.

What is claimed is:

1. In combination with a spool having a reel of a narrow fabric and side flanges, a sheet metal clip to hold the end of the fabric comprising a main body member consisting of a U-shaped strip of metal, the legs of which are placed upon one of said side flanges to grip the same, and a finger with a curled edge extending from one side of the body member to press the end of the narrow fabric.

2. In combination with a spool having a reel of a narrow fabric and side flanges, a sheet metal clip to hold the end of the fabric comprising a main body member consisting of a U-shaped strip of metal, the legs of which are placed upon one of said side flanges to grip the same, and a finger with a curled edge extending from one side of the body member to press the end of the narrow fabric, said flange having a graduated slot and said finger having an element sliding in said slot.

3. In combination with a spool having a reel of a narrow fabric and side flanges, a sheet metal clip to hold the end of the fabric comprising a main body member consisting of a U-shaped strip of metal, the legs of which are placed upon one of said side flanges to grip the same, and a finger with a curled edge extending from one side of the body member to press the end of the narrow fabric, said U-shaped member being provided with teeth to grasp said flange.

4. In combination with a spool having a reel of a narrow fabric and side flanges, a sheet metal clip to hold the end of the fabric comprising a main body member consisting of a U-shaped strip of metal, the legs of which are placed upon one of said side flanges to grip the same, and a finger with a curled edge extending from one side of the body member to press the end of the narrow fabric, said U-shaped member having one leg with openings therein and an opposite leg with tangs projecting toward said openings, said side flange being inserted between said legs of said U-shaped member and engaged between said openings and said tangs.

5. In combination with a spool having a reel of a narrow fabric and side flanges, a sheet metal clip to hold the end of the fabric comprising a main body member consisting of a U-shaped

strip of metal, the legs of which are placed upon one of said side flanges to grip the same, and a finger with a curled edge extending from one side of the body member to press the end of the narrow fabric, said flange having a slot and said finger carrying a pointer element sliding in said slot, the edges of said slot being graduated and said pointer cooperating with said graduations to indicate the amount of fabric on the reel, when said finger is in contact with the outer convolution of fabric on the reel.

6. A resilient ribbon or narrow fabric holder comprising a contact finger member, an extension from one end of said finger to extend along the inside face of a flange of a ribbon reel and a reversely turned flange to grip said reel flange against said extension, said extension and said flange forming a U-shaped clip tightly gripping the periphery of the flange of a narrow fabric spool.

7. A resilient ribbon or narrow fabric holder

comprising a contact finger member, an extension from one end of said finger to extend along the inside face of a flange of a ribbon reel and a reversely turned flange to grip said reel flange against said extension, said extension and said flange forming a U-shaped clip tightly gripping the periphery of the flange of a narrow fabric spool, said extension having engaging lugs.

8. A clip for holding ribbon on reels having a core and side flanges comprising three members formed of sheet metal, two members resiliently and tightly grasping one of the side flanges, said two members forming a U-shaped clip and the third member contacting the ribbon, said third member extending transversely away from said first two members and said first two members being closely parallel to each other and being spaced apart less than the thickness of said flange.

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