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2,002,609

RING SHUTTLE REEL FOR SEWING MACHINES

Filed June 20, 1934

Fig. 1.

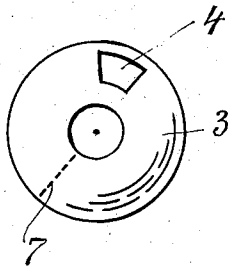


Fig. 2.

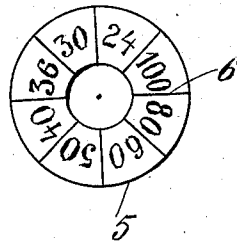


Fig. 3.

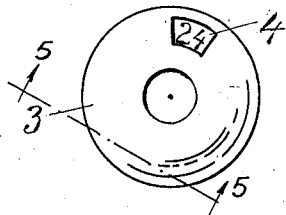


Fig. 4.

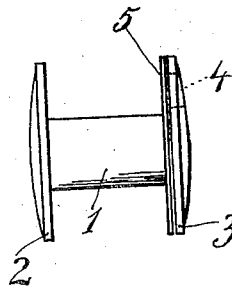
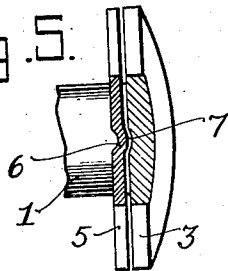


Fig. 5.



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RING SHUTTLE REEL FOR SEWING MACHINES

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In Norway November 9, 1932

2 Claims. (Cl. 40—70)

The present invention relates to ring shuttle reels for sewing machines, and has for its object an arrangement adapted to indicate the thickness of the thread wound on the reel.

5 A further object of the invention is to provide an arrangement whereby the device may be set at will for indication of any desired usual thickness of thread, and also to provide an arrangement whereby the device, when so set, will not
10 inadvertently become disarranged and give an incorrect indication.

The invention is illustrated by way of example in the accompanying drawing in which

15 Fig. 1 is an end elevation of a shuttle reel provided with indication opening in one flange thereof,

Fig. 2 is a view of a disc to be used in connection with the shuttle reel in Fig. 1,

20 Fig. 3 is a view similar to that in Fig. 1 but with the disc in Fig. 2 placed in position on the shuttle reel,

Fig. 4 is a side view of the shuttle with disc, and

25 Fig. 5 is a section on the line 5—5 of Fig. 3.

The reel proper consists in the embodiment here shown of a central hub 1 and two end flanges 2 and 3 secured to the hub in a suitable manner. As will be seen from Figs. 1, 3 and 4 one of the flanges, viz. 3, is provided with an opening or
30 window 4 therein.

On the hub 1, and closely adjacent to the flange 3, is rotatably placed a disc 5. This disc is provided with a series of number indications, which correspond to the numbers commonly used for
35 designating the thickness of sewing threads. In Fig. 2 the numbers 24, 30, 36, 40, 50, 60, 80, and 100 respectively are shown by way of example. Said numbers are arranged in an arcuate row of succession on one face of the disc 5 and at such
40 distance from the center thereof, that when the disc is placed in position on the hub 1, it may be turned so that any desired one of said numbers may be caused to appear in the window 4 of the flange 3. This window is of such size that only
45 one of said numbers at a time can be seen through the window in each position of the disc 5. In Fig. 3 is illustrated how the number 24, and only this number, appears in the window.

When thread is to be wound on a shuttle reel, the disc 5 is at first set in such position that the number appearing in the window 4 indicates the number (thickness) of the thread, the shuttle is then reeled, and from a stock of shuttles thus
5 prepared for use, it is later an easy matter to select such ones which carry thread of a desired thickness. Thus I have provided an adjustable arrangement whereby shuttle reels may be set to indicate the thickness of thread wound thereon.
10

In order that the indication device shall not inadvertently become disarranged after setting and give an incorrect indication, I may provide means for preventing relative dislocation of the member bearing the numerals and the member
15 bearing the indicator therefor, which indicator in the embodiment here illustrated is formed by the window 4.

A simple means for preventing such dislocation may consist of one or more projections and
20 one or more depressions cooperating to hold the members in adjusted position.

In Fig. 2 are illustrated ribs 6 projecting between each of the numerals carried by the disc 5, and a depression 7, indicated by a dotted line in
25 Figs. 1 and 3, is arranged in the inner face of the flange 3, in such manner that any desired one of the ribs 6 may be caused to cooperate with the depression 7 and thereby prevent dislocation of the members 3 and 5. This arrangement is bet-
30 ter disclosed on a larger scale in Fig. 5.

However, I do not restrict myself to the specific arrangement of the invention here illustrated, but
What I claim is:

1. The combination with a ring shuttle reel
35 having a flange with a window therein of a disc bearing numerals designating thread thickness and rotatably mounted on the hub of said shuttle, said numerals being adapted, one at a time, to cooperate with said window.
40

2. The combination in a ring shuttle reel of a flange having a window therein, a disc bearing numerals designating thread thickness rotatably
45 mounted on the reel hub adjacent to said flange, a series of projections on said disc and a depression in said flange adapted to receive and cooperate with any desired one of said projections.

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