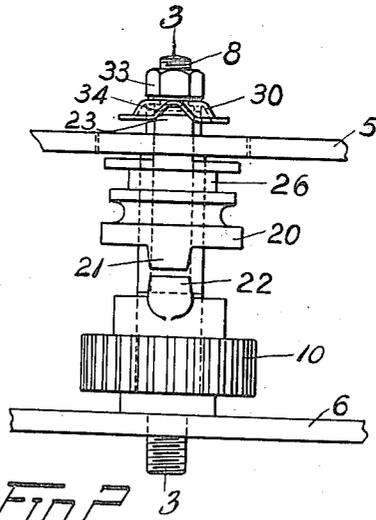
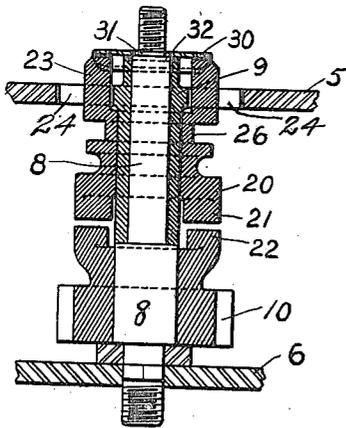
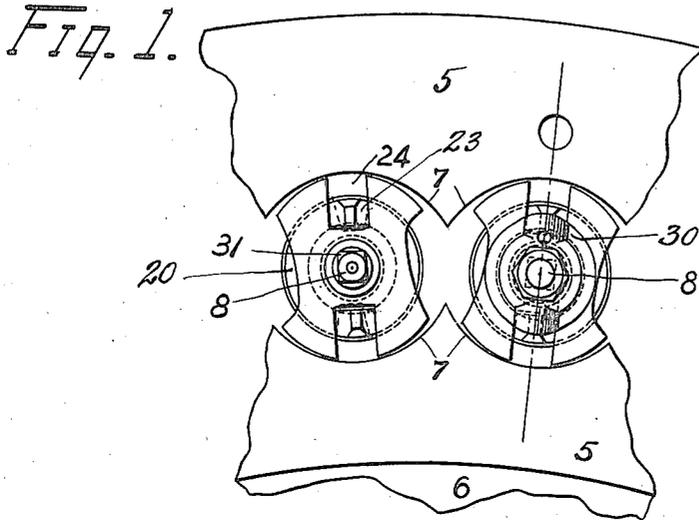


R. C. RAHM:
 LACE BRAIDING CARRIER DRIVE.
 APPLICATION FILED MAR. 28, 1918.

1,282,945.

Patented Oct. 29, 1918.



Robert Carl Rahm Inventor

By *W. G. M. Stewart*

Attorneys

UNITED STATES PATENT OFFICE.

ROBERT CARL RAHM, OF WYOMISSING, PENNSYLVANIA, ASSIGNOR TO TEXTILE MACHINE WORKS, OF WYOMISSING, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

LACE-BRAIDING-CARRIER DRIVE.

1,282,945.

Specification of Letters Patent.

Patented Oct. 29, 1918.

Application filed March 28, 1918. Serial No. 225,330.

To all whom it may concern:

Be it known that I, ROBERT CARL RAHM, citizen of the United States, residing at Wyomissing, near Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Lace-Braiding-Carrier Drives, of which the following is a specification.

My invention relates to braiding carrier drive mechanism, and particularly to the type set forth in Patent No. 1,256,038 issued to me February 12, 1918 and it consists in the improved construction hereinafter fully described in connection with the accompanying drawing and defined in the claims, the main object being to advantageously provide for properly retaining the slidable rotary clutch member when it is disengaged from the drive gear member.

Figure 1 is a plan view of a small portion of the race-way plate of a lace-making braiding machine, showing my improved drive mechanism in position in two adjoining race-circles; such showings being respectively a full plan view of the applied mechanism, and a similar view with the stop washer removed from the race-circle post.

Figs. 2 and 3 are respectively a full elevation and a sectional elevation of the applied mechanism; the latter being on the line 3-3 of Fig. 2.

The top plate 5 of the machine is provided with intersecting race-circles 7, 7, and the bottom plate 6 with centrally fixed race-circle posts 8, 8, each having mounted thereon a carrier driver 9, a drive gear 10, and an axially slidable clutch member 20, all adapted to cooperate in driving the bobbin carrier substantially as set forth in my prior patent referred to; the slidable member 20 having bottom clutch projections 21 engaging and disengaging like projections 22 on the drive gear 10, and top clutch projections 23 constantly engaged in apertures 24 of the carrier driver; while the sliding movement is imparted to said member 20 by means of an intermittently operated arm 25 engaging a circular groove 26 in said member.

When the sliding clutch member 20 is raised to disengage it from the drive gear member 10, it is desired that it, together with the carrier driver 9 which it constantly engages, be retained in determined rotary posi-

tion for the succeeding clutch movement. My present invention provides for accomplishing this by very simple and advantageous clutch-engaging means employed in connection with the fixed race-circle post. This engaging means comprises, as shown, a stop washer 30, having an angular central opening engaging a squared portion 31 of the post and properly seated against a washered shoulder 32 thereon, so as to be rigidly fixed thereto by the nut 33; the washer being adapted to engage the raised clutch member 20 so as to retain the latter in determined rotary position on the post. The extended top clutch projection 23 is formed to properly engage and disengage the fixed stop washer 30; which latter is conveniently and preferably made from sheet metal pressed to a cup-like shape, with a rim depression 34 to engage said projection 23 and is applied to the post in inverted position, as shown.

When the clutch member 20 is moved downward as determined ordinarily by a jacquard mechanism, it is disengaged from my improved stop device on the post as it engages the drive gear 10, so as to be free to rotate with the latter and the carrier driver 9; but when moved upward to disengage the drive gear it is promptly engaged by said stop device so as to be retained, together with its constantly engaged carrier driver, in determined rotary position upon the post.

What I claim is:

1. In a braiding carrier drive mechanism comprising a fixed race-circle post having independent rotary members and an axially slidable clutch member mounted thereon; a stop washer detachably fixed to said post and having its rim portion adapted to engage and disengage the top portion of said axially slidable clutch member.

2. In a braiding carrier drive mechanism comprising a fixed race-circle post having independent rotary members and an axially slidable clutch member mounted thereon; a cupped sheet-metal stop washer detachably fixed to said post and formed with a rim depression adapted to engage and disengage the top portion of said axially slidable clutch member.

3. A braiding carrier drive mechanism comprising a fixed race-circle post; a carrier driver having a clutch-engaging aperture

and a drive-gear clutch member independently rotatable thereon; an axially slidable clutch member having an upward projection constantly engaged in said aperture and a bottom projection adapted to intermittently engage said drive gear member; a stop washer non-rotatably fixed to said post and adapted to be engaged and disengaged by said upward projection of the axially slidable member; and means for operating the latter. 10

In testimony whereof I affix my signature.

ROBERT CARL RAHM.