

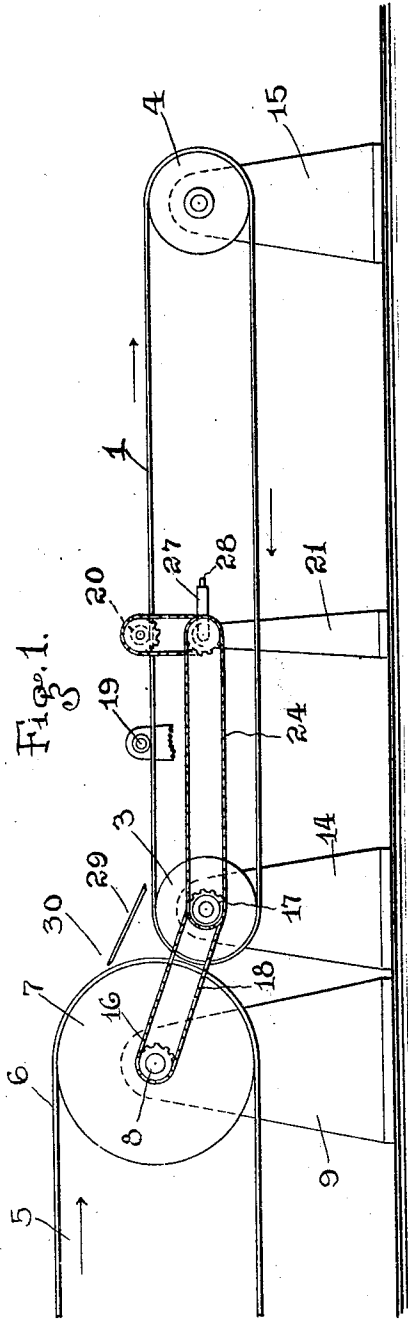
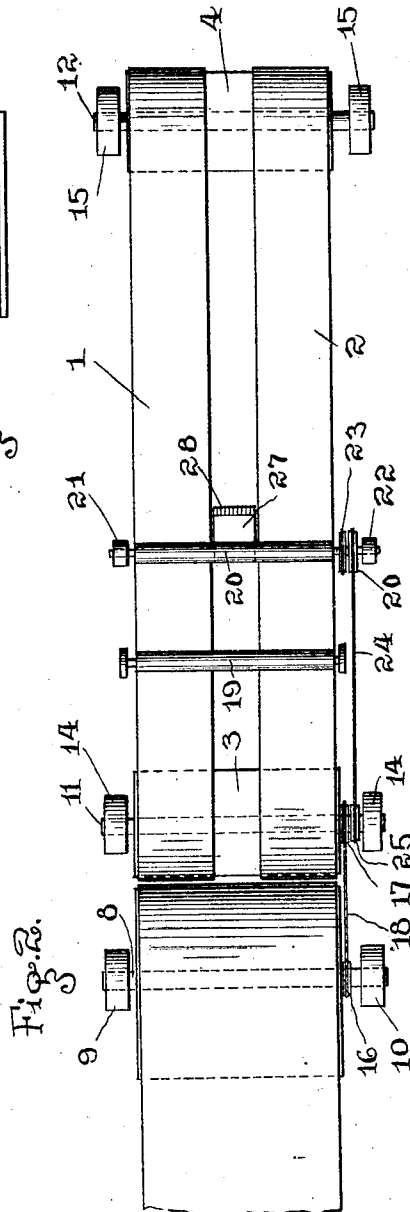
Feb. 28, 1928.

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1,660,472

RECORDING MEANS

Filed May 10, 1926



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RECORDING MEANS.

Application filed May 10, 1926. Serial No. 107,887.

Our invention is for an improvement in recording means.

An object of our invention is to provide a device which may be used alone or in conjunction with conveying devices already in use. A further object is to automatically record data on moving sheets. A still further object is to provide means to carry sheets to and from said recording means.

We accomplish these objects by the device illustrated in the accompanying drawing, in which

Figure 1 is an elevational view of our device shown in section,

Figure 2 is a plan view thereof, and

Figure 3 is a detail view.

Similar characters of reference refer to similar parts throughout the several views.

Our device includes a conveyor having spaced parallel belts 1, 2 which are mounted on rollers 3, 4. Roller 3 is the driving roller for the belts 1, 2. Usually our device operates in conjunction with another conveyor 5, tho it may be used alone. The conveyor 5 has a belt 6 mounted on a pair of spaced rollers, but one of which 7 is shown. This roller is fixed on an axle 8 which is journaled in standards 9, 10. The rollers 3, 4 are fixed on axles 11, 12 which are journaled in respective standards 14, 14 and 15, 15. These last mentioned standards are of a height to bring the top of the rollers 3, 4 in a plane beneath the axis of roller 7.

When our device is used with the conveyor 5 the driving roller 3 is driven from the roller 7 by means of sprockets 16, 17 and a chain 18, or directly from a motor if desired.

Mounted above and extending across the belts 1, 2 are a roller 19 and a platen 20 supported in any suitable way in contact with the said belts. Roller 19 is an idler while platen 20 is driven.

Between the standards 14, 15 is a pair of supports 21, 22 having an axle 23 journaled therebetween in the plane of the axis of the rollers 3, 4. This axle is driven by a chain 24 and sprockets 25, 26 from driven axle 11. The platen 20 is also driven by chain means and preferably from axle 23.

Fixed on the axle 23 is a recording clock 27 or any desired data stamping means. If a clock is used, the face 28 thereof would preferably be as shown in Figure 3. The clock 27 is positioned so that the type face

thereof will engage the platen 20 between the belts 1, 2.

Between the belts 6 and 1, 2 is a guide 29, having one end 30 substantially in contact with the belt 6 yet spaced sufficiently therefrom to allow the belt to move freely on the roller 7. The end 30 is also located at a level substantially midway between the top and axis of the roller 7.

In operation, sheets on which data is to be recorded are placed on the conveyor belt 6 which is driven in the direction of the arrow. As the sheet reaches the guide 29 it is passed thereby onto the moving belts 1, 2. Here it passes between the roller 19 and belts 1, 2 which smooths out the sheet. Next the sheet travels along the moving belts 1, 2 to the rotating platen 20 where the rotating clock or other stamping means prints on the sheet against the platen 20 between belts 1, 2 any data which is on the clock face or stamping means. The sheet is then carried along the belt to the end thereof.

It is of course understood that the speed of rotation of the stamping means may be made rapid enough to contact and stamp the passing sheets regardless of the number passing under platen 20 during any given time. This may be accomplished by mere mechanical change in the ratio of the sprockets 25, 26.

If desired any other equivalent driving means may be used in lieu of the chain drives shown.

Having thus described our invention, what we claim is:

1. In a data recording device the combination of a pair of spaced belts, adapted to carry a sheet to be stamped, a roller thereon adapted to smooth out said sheet, a rotatable platen in contact with said belts, means to drive said platen, data stamping means between said belts, and means to contact said stamping means and said platen to stamp said sheet.

2. In a data recording device the combination of a pair of spaced rollers, a pair of spaced belts on said rollers to be driven by one of said rollers, and adapted to carry a sheet to be stamped, a roller thereon adapted to smooth out said sheet, a platen mounted across said belts and in contact therewith, an axle, data stamping means fixed on said axle to contact said platen, means to rotate said axle and stamping means whereby said

stamping means will successively contact said platen to stamp said sheet.

3. In a data recording means the combination of a conveyor belt having roller means, a pair of spaced rollers in a plane below the axis of said roller means, a pair of spaced parallel belts supported by said spaced rollers, guide means between said first mentioned belt and said spaced belts, a platen in contact with and on top of said spaced belts, movable data stamping means between said spaced belts and means to cause said stamping means to contact with said platen.

4. In a data recording means a pair of spaced parallel belts adapted to carry a sheet to be stamped, rollers supporting said belts, a roller adapted to smooth out said sheet, a rotatable platen on top of and in contact with

said belts, rotatable data stamping means below and between said belts and in vertical alignment with said platen to contact therewith and means to drive said belts, platen and stamping means to stamp said sheet.

5. In a data recording device, the combination of a pair of spaced parallel belts, rollers for said belts, conveying means adapted to deliver on said pair of belts a sheet to be stamped, a guide between said conveying means and said belts, a roller adapted to smooth out said sheet in advance of its being stamped and stamping means adapted to stamp said sheet.

In testimony whereof we affix our signatures.

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