Oct. 2, 1934. A. POTDEVIN 1,975,122

FEED ROLLER MOUNTING FOR TUBING MACHINES AND THE LIKE

Original Filed Nov. 2, 1931

Fig. 1

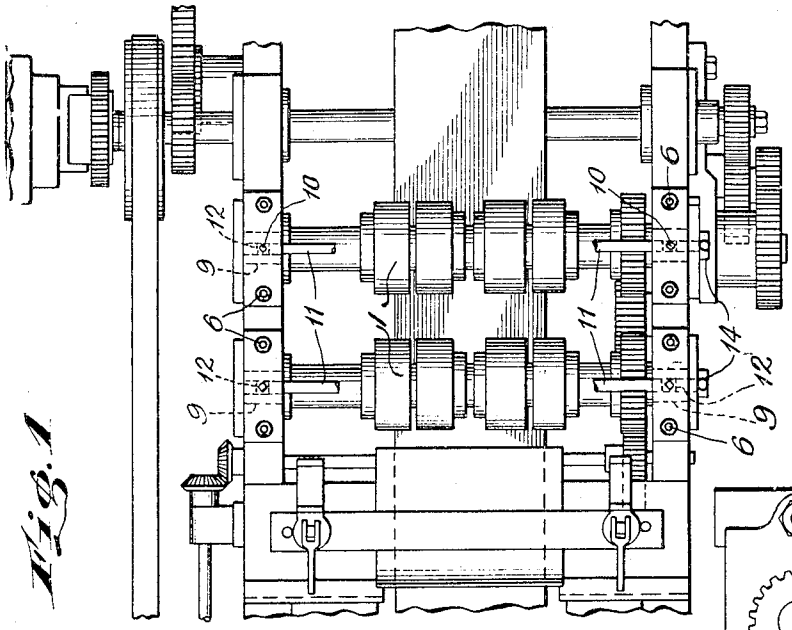
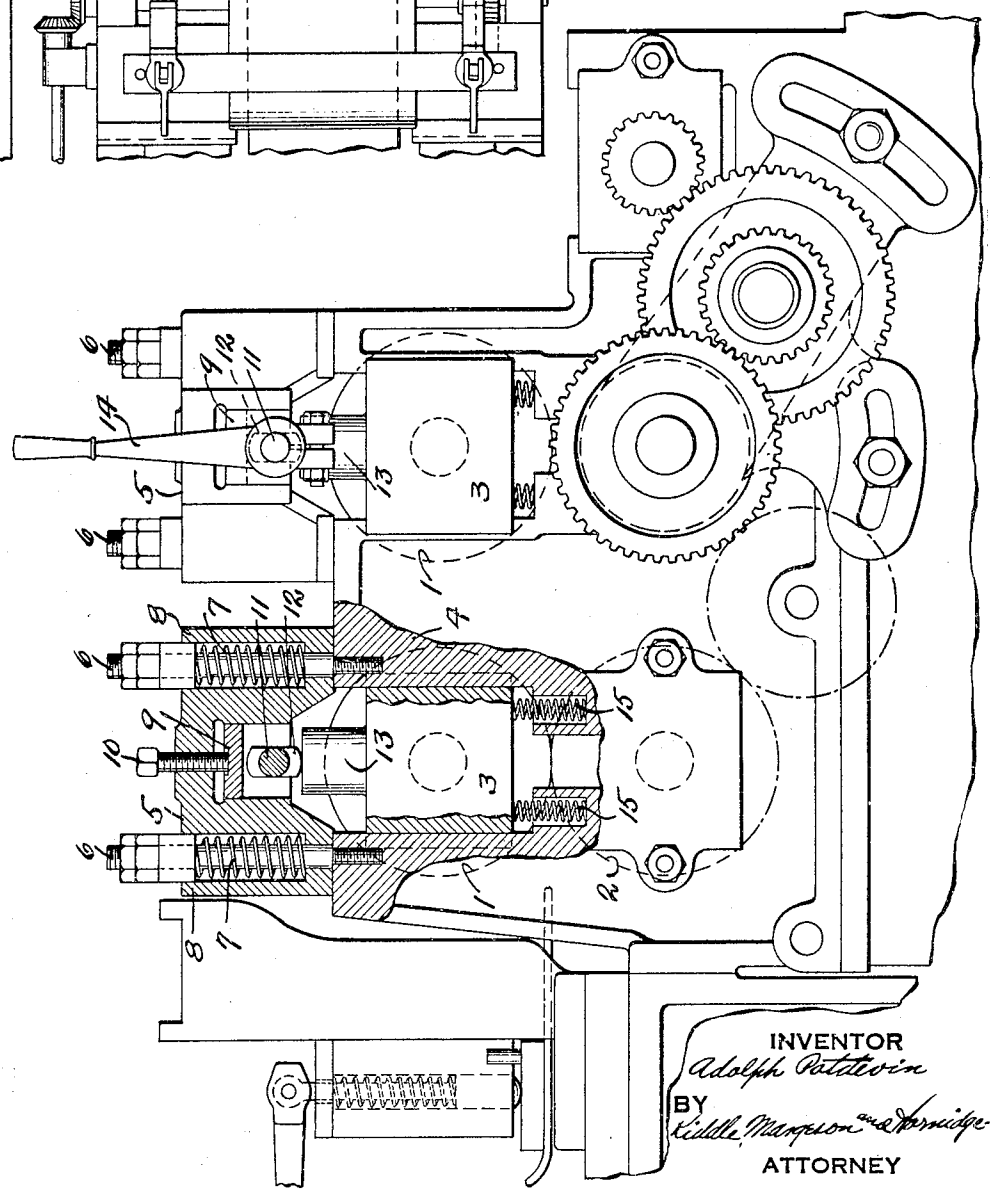


Fig. 2



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FEED ROLLER MOUNTING FOR TUBING MACHINES AND THE LIKE

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Original application November 2, 1931, Serial No. 572,561. Divided and this application February 28, 1934, Serial No. 713,298

1 Claim. (Cl. 271—2.3)

This invention relates to an improvement in bag making or tubing machines and is particularly directed to the feed rollers for advancing the material through the machine, the invention being more specifically directed to the mounting of these feed rollers.

This application is a division of my copending application Serial No. 572,561, filed November 2, 1931.

In the drawing:

Fig. 1 is a plan view of an embodiment of the invention; and

Fig. 2 is an elevational view in part section.

Inasmuch as the present application is a division of my copending application above referred to and is directed to the feed rollers no reference will be made herein to the mechanism by which the material to be tubed is passed through the machine up to the time it reaches the feed rollers, nor will the various operations which are performed on the material after the same leaves the feed rollers be referred to in any detail inasmuch as all of this apparatus is fully described in the parent application.

There are two sets of feed rollers constituting the subject matter of the present application, an upper set designated 1 and a lower set designated 2.

Each of the upper rollers 1 is carried in bearing blocks 3 mounted in the casting 4 constituting a part of the machine frame as will be understood.

The upper face of the casting 4 is provided with caps 5 yieldingly bolted to the casting by bolts 6. As will be seen from the drawing each of these bolts is provided with a spring 7 mounted in the bearing 8 in the caps 5 which receive the bolt.

Each of the caps 5 is provided with an adjustably mounted block 9, the adjustment of each of these blocks, i. e., their position in the caps 5 being regulatable by adjusting bolts 10.

Passing across the top of each of the upper feed rollers 1 is a rod 11 journalled in the caps 5. Each of these rods is provided with a cam 12, these cams cooperating with an extension 13 provided on each of the blocks 3. Each of these rods is adapted to be turned by a lever 14. There are two of these levers one on each rod.

The purpose of this construction is to permit the feed rollers to be separated when the machine is being set up. In this connection the levers 14 are initially moved from the vertical position shown in the drawing either to the right or left, as the case may be. This movement of the levers 14 will move the high part of the cam 12 away from the projections 13 on the blocks 3 so that the springs 15 which lie beneath the blocks intermediate these blocks and the casing 4, will raise the upper feed rollers 1.

It will be apparent, therefore, that the springs 7 will control the pressure of the feed rollers upon the paper being fed between them and that when the cams 12 are moved either right or left from the position shown in the drawing the springs 15 will move the upper feed rollers upwardly away from the lower feed rollers to relieve the pressure on the paper being fed between the rollers.

What I claim is:—

In a tube making machine, feeding mechanism comprising in combination an upper feed roller and a cooperating lower feed roller, bearing blocks for one of said rollers, springs cooperating with said bearing blocks, cams cooperating with said bearing blocks to maintain said springs under compression, means for adjusting the setting of said cams to vary the compression of said springs, caps yieldingly mounted on the machine frame and supporting said cams, said caps determining the pressure of the rollers on material fed between the same, said first mentioned springs moving one of said rollers away from the other upon movement of said cams to inoperative position.

ADOLPH POTDEVIN.