

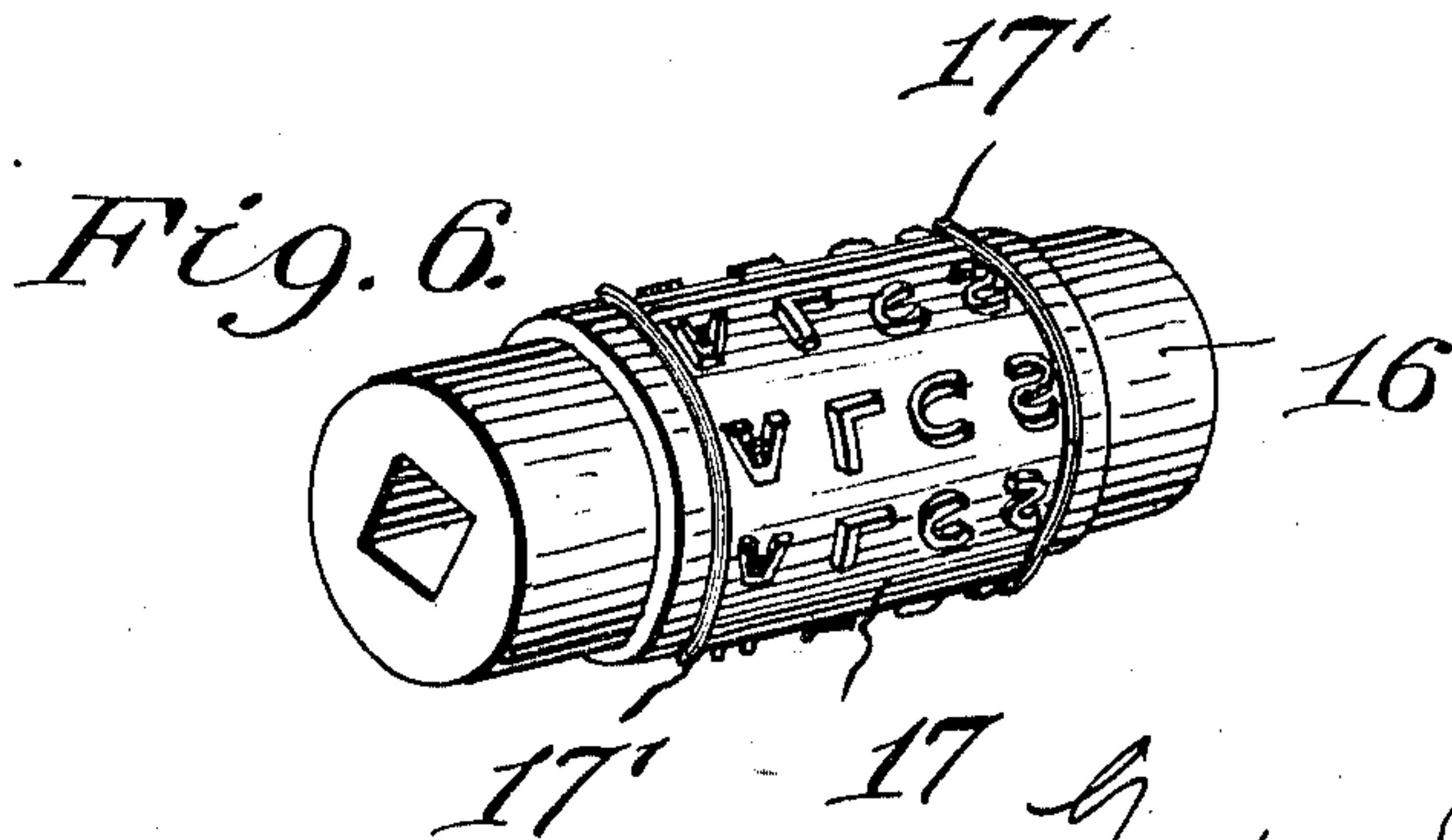
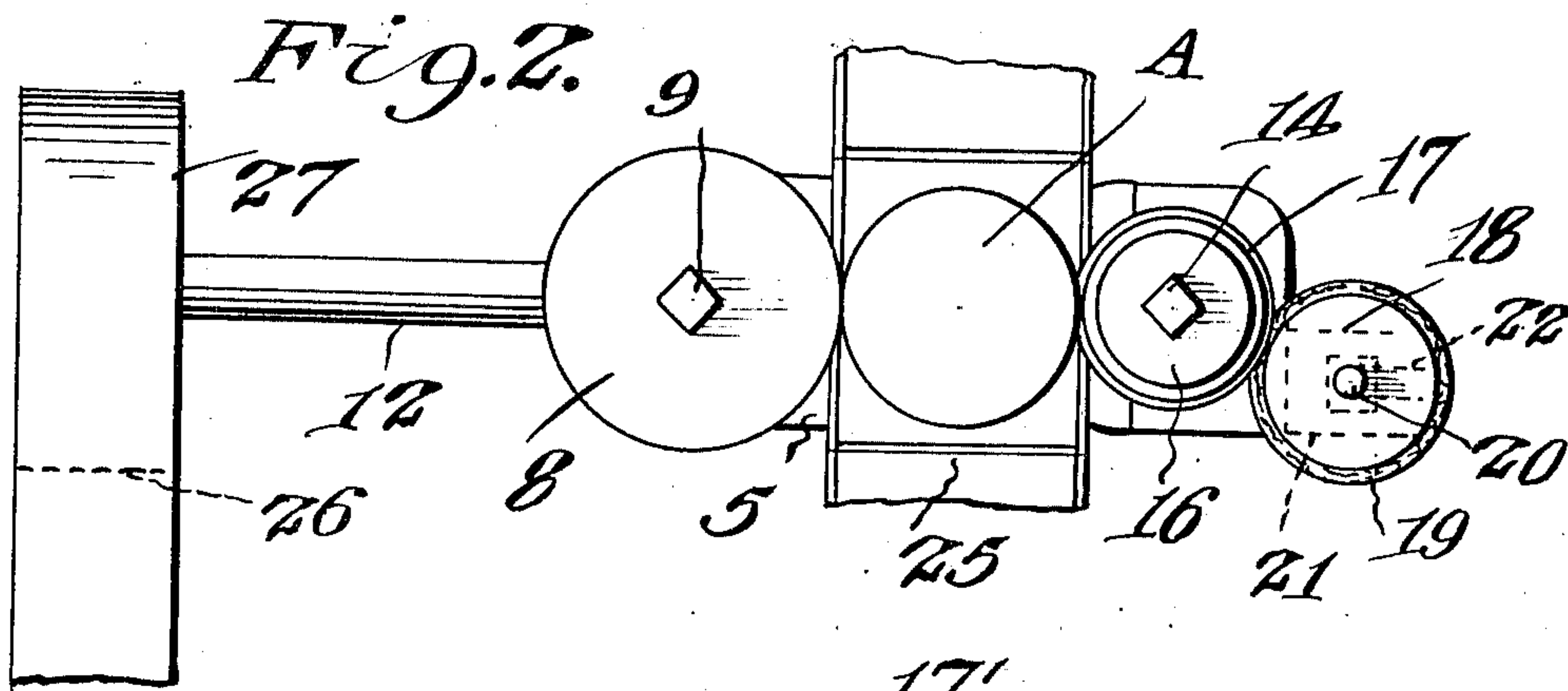
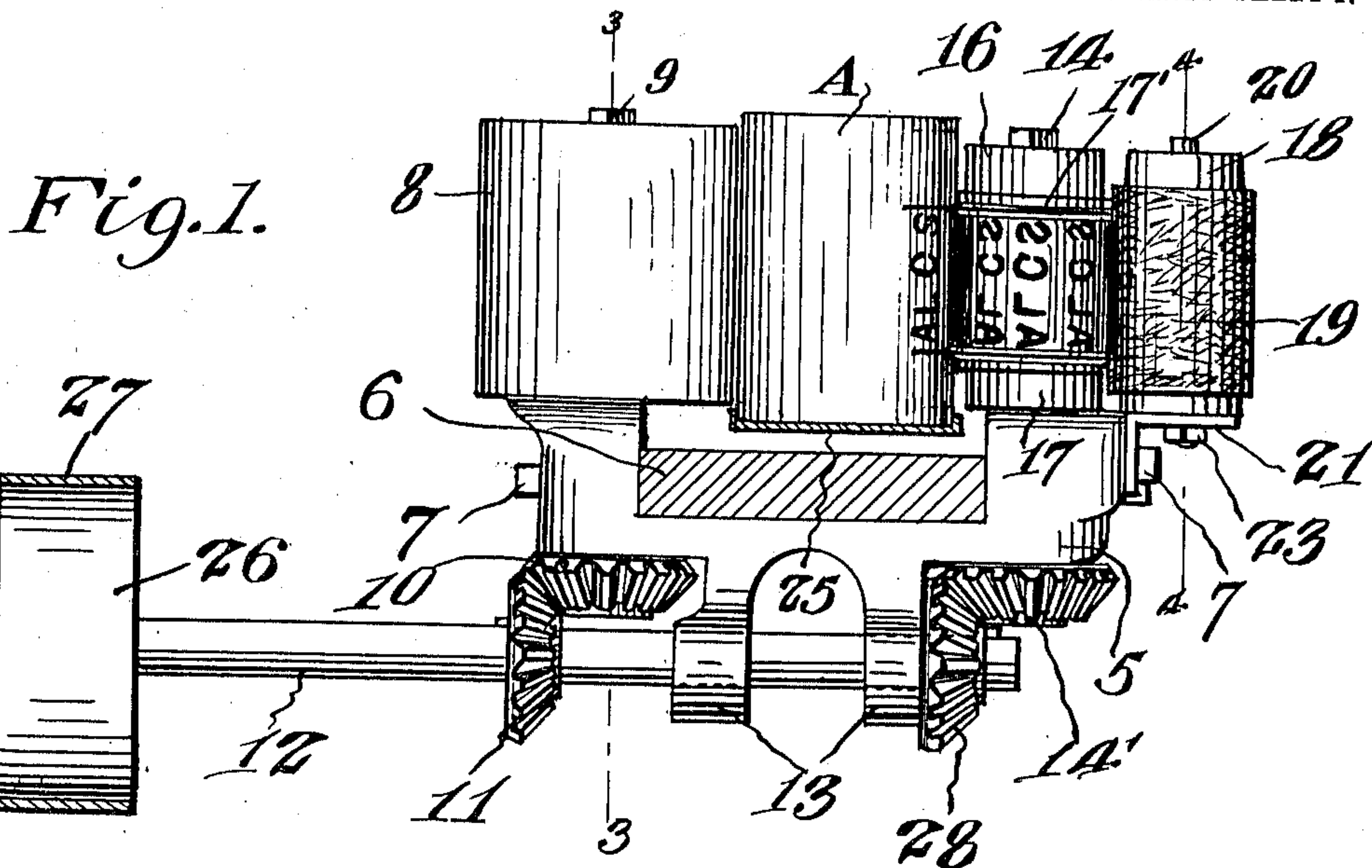
G. J. LANGE.  
MARKING ATTACHMENT FOR CANNING MACHINES.

970,839.

APPLICATION FILED NOV. 26, 1908.

Patented Sept. 20, 1910.

2 SHEETS-SHEET 1.



Witnesses:—

Joe. P. Wahler.  
E. M. Ricketts

Inventor  
Gustav J. Lange

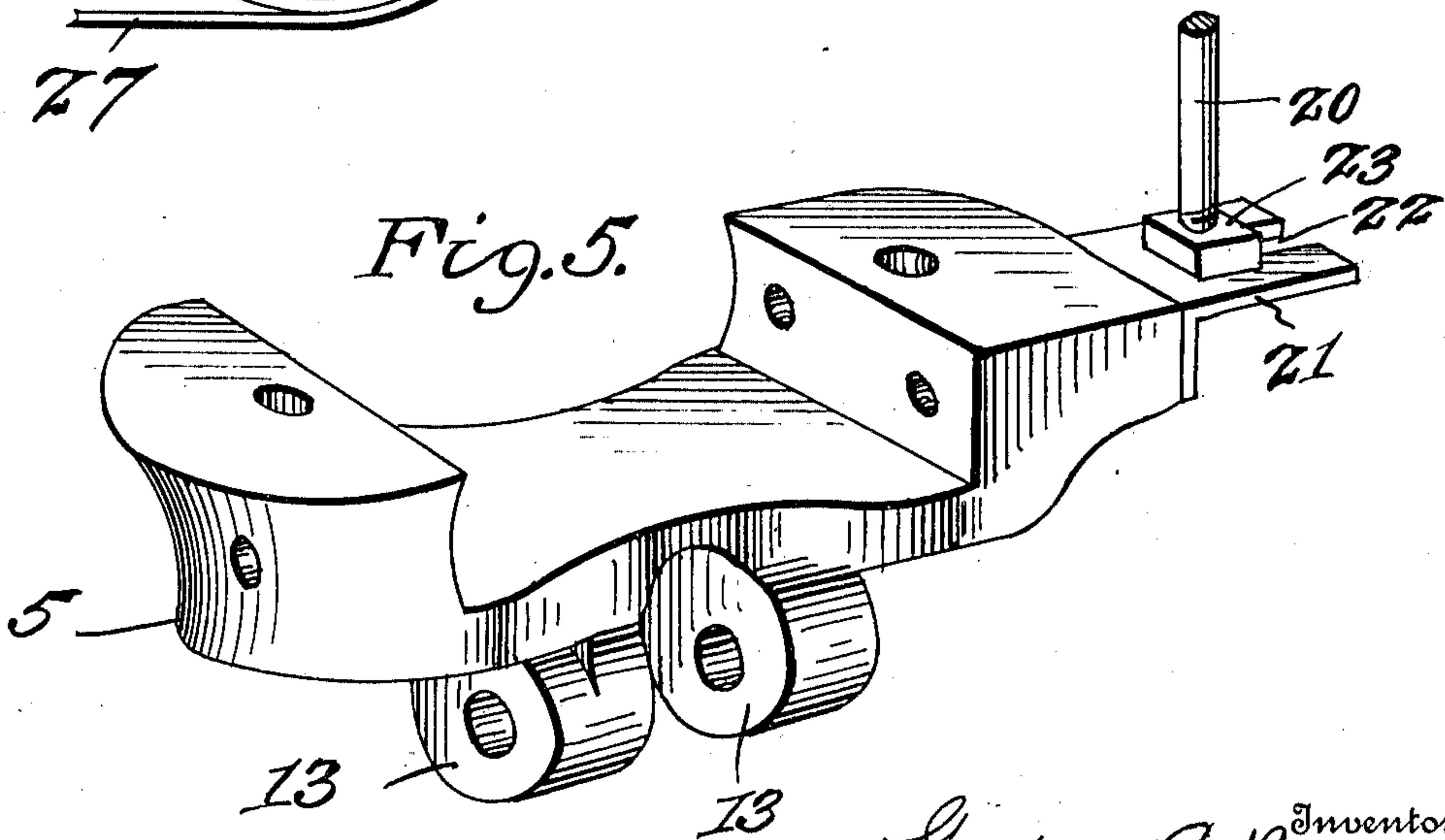
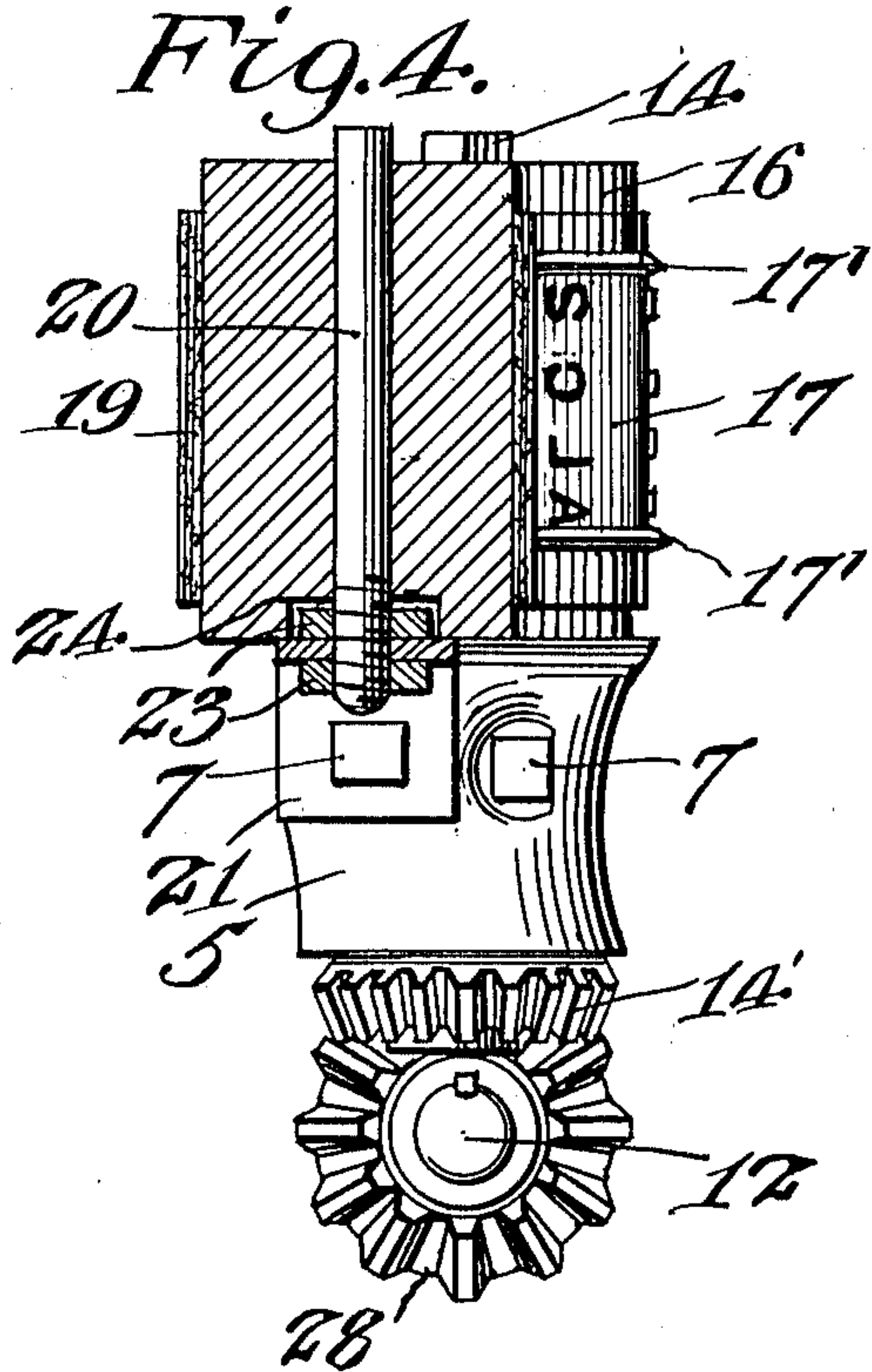
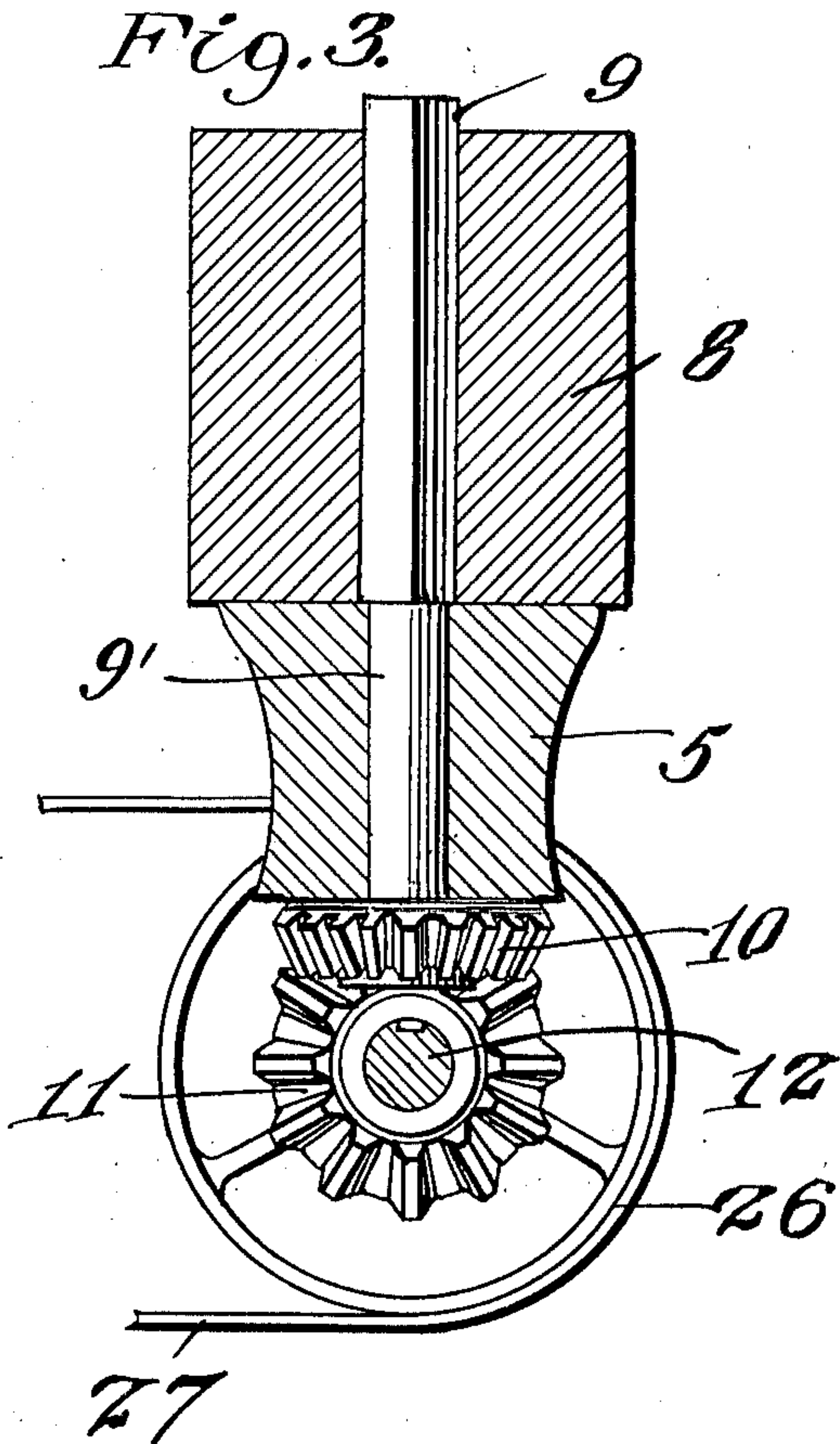
By Watson & Coleman  
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By Watson E. Coleman <sup>Attorney</sup>



# UNITED STATES PATENT OFFICE.

GUSTAV J. LANGE, OF EAU CLAIRE, WISCONSIN.

MARKING ATTACHMENT FOR CANNING-MACHINES.

970,839.

Specification of Letters Patent. Patented Sept. 20, 1910.

Application filed November 26, 1909. Serial No. 529,996.

*To all whom it may concern:*

Be it known that I, GUSTAV J. LANGE, a citizen of the United States, residing at Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented certain new and useful Improvements in Marking Attachments for Canning-Machines, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to an improved attachment for canning machinery whereby cans may be provided with identification numerals or figures as they are passed through the soldering machines to be placed  
15 in the retort kettles or other cooking devices.

The primary object of the present invention is to provide a very simple attachment of the above character whereby the cans may  
20 be provided with identification marks as they are carried by a suitable conveying belt between a cylindrical marking pad and a rotatably mounted guide roller.

Another object resides in the provision of  
25 suitable means for supplying ink to the marking pad, the inking member being adjustably disposed with relation thereto whereby the amount of ink supplied may be suitably regulated.

30 With these and other objects in view, the invention consists of the novel construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings,  
35 in which—

Figure 1 is a side elevation of a marking attachment constructed in accordance with the present invention; Fig. 2 is a top plan view thereof; Fig. 3 is an enlarged transverse section taken on the line 3—3 of Fig. 1; Fig. 4 is a similar view taken on the line 4—4 of Fig. 1; Fig. 5 is a detail perspective view of the supporting frame; and Fig. 6 is a similar view of the marking roller.

45 In the process of canning peas, beans, or other vegetables and fruits, the cans are passed through a series of machines which first fill the same with the material and then place a cap or cover thereon and finally close  
50 said cover by soldering the same to the can before the can is passed into the retort kettles or other devices provided for cook-

ing the contents thereof. It is customary to provide suitable identification marks whereby the packers will be able to distinguish  
55 between the various grades of the same articles which are put up by the same company, and also to indicate thereon the particular series of machines through which the can passed and the year in which the  
60 same was packed. By providing the identifying numerals or letters, it will be possible to place the responsibility for any defect in the packing of the material which is the result of reckless or careless work on the part  
65 of the inspectors who are charged with the duty to see that the cans are perfectly sealed before leaving the machines which are under their immediate supervision.

In the attainment of the above ends I provide a supporting frame 5 which may be  
70 attached to an arm 6 secured to the machine by means of the bolts 7. The arm 6 is disposed in a recessed portion of the frame between the ends thereof and below the  
75 upper surface so as to permit of the passage of the can conveying belt between the marking roller pad and the guide roller. The guide roller 8 is preferably formed of heavy wood and is disposed upon a square shaft 9  
80 which extends through one end of the supporting frame 5. The guide roller is vertically movable upon the shaft 8 and may be lifted from the same and another placed thereon in accordance with the size of the  
85 cans being marked. This shaft has keyed or otherwise secured to its lower end a bevel pinion 10 which meshes with a similar pinion 11 carried by the horizontally disposed drive shaft 12. This shaft is supported  
90 in suitable bearings 13 integrally formed with the frame 5 and depending therefrom. The lower portion of the shaft 9 which extends through the end of the supporting frame is cylindrically formed as shown at  
95 9' so that the shaft will have free rotative movement therein. It will be noted that the guide roller 8 is of such diameter that the same extends over the recessed portion of the supporting frame. A shaft 14 similar  
100 to the shaft 9 is vertically positioned through the opposite end portion of the frame and the rectangular portion of said shaft carries the roller 16 on which a rubber



marking pad 17 is secured. The marking roller 16 is also adapted to be lifted from its shaft 14 in a manner similar to the guide roller 8 so that it can be replaced by other rollers carrying different designating characters when desired. This pad may be secured to the wooden roller 16 by means of any suitable adhesive material and is formed with the peripheral ribs or ridges 17'. These ridges indicate the size of the peas or other material contained within the can. These peas are graded by all packers, usually into six different sizes. The lines which are marked on the can by the ribs 17' are indicative of the grade of peas contained therein. As shown in the drawings the rubber marking pad is provided with two such ribs thereby showing that the second size of peas is contained in the can. The pad is also provided with the raised letters which indicate the line of machines through which that particular can passed, the name of the packing company and the year in which the goods were packed. An illustrated example is shown in the drawings wherein the letter A represents the line of machinery.

In large canning factories the machines are arranged in parallel rows or lines each of which is provided with an identifying letter or numeral and the marking pads on those machines are provided with such identification letter. Thus after the can leaves any line of machines, it may be immediately ascertained by the packers and the responsibility placed for any defect therein. The letters L and C indicate the packer's name, in the present case "Lange Co.". The final letter S represents the year in which the goods were packed. Every year a different letter is provided thereby necessitating the change of the marking rollers yearly. In this manner when the goods are packed in the warehouse, if peas of different grades are inadvertently mixed, they may be readily segregated by noting the number of lines on the can which indicate the particular grade of goods.

In order to ink the rubber marking pad, I provide the roller 18 on which the felt covering 19 is secured. A shaft 20 extends through this roller and is adjustably mounted in an L-shaped bracket 21 which is secured to the end of the supporting frame 5. This bracket is formed with a longitudinal slot 22 through which the lower end of the shaft 20 extends. Nuts 23 are threaded upon the shaft 20 on opposite sides of the bracket plate whereby the shaft is rigidly supported therein. The bottom of the roller 18 is formed with a central recess 24 which is of sufficient depth and diameter to permit of the free rotative movement of the roller upon the shaft. This roller is rotated by the

frictional contact of the marking roller therewith, and as said rollers are rotated the ink which has previously been supplied to and absorbed by the felt covering 19 is taken up by the marking roller, so that the letters and ribs thereon will leave a clear and distinct impression upon the periphery of the cans as they pass between the guide roller 8 and the marking roller. In Fig. 1 the can A is shown passing between the rollers after having been provided with the identification marks. The can is carried upon the flexible conveying chain or belt 25, which as previously stated passes through the centrally recessed portion of the frame. A band wheel 26 is carried by the outer end of the drive shaft 12 and a drive belt 27 extends thereover and to the power shaft of the engine or motor. A pinion 14' is secured to the lower end of the shaft 14 and is engaged by a similar pinion 28 carried by the shaft 12 whereby rotative movement is imparted to the rollers 8 and 16 in a common direction.

From the foregoing it will be seen that I have provided an attachment for canning machinery which is of great utility, is highly efficient in its operation, and may be produced at a minimum expense. The guide roller 8 and the marking roller 16 may be removed and others positioned on the shafts 9 and 14, respectively, when cans of varying diameters are to be marked. The amount of ink supplied to the marking roller may be regulated to a nicety by adjusting the inking roll upon the bracket plate 21 so that the frictional engagement between the same and the marking roll is increased or decreased whereby exactly the proper amount of ink may be taken up by the marking roll and the possibility of smearing and obliterating the identification marks will be eliminated.

While I have shown and described what I believe to be the preferred embodiment of the invention, it will be obvious that a great many minor changes may be resorted to in the form, proportions and details of construction without departing from the essential features or sacrificing any of the advantages thereof.

Having thus described the invention, what is claimed is:

An attachment of the character described comprising a supporting frame having a centrally recessed portion adapted to receive an endless carrier, shafts extending vertically through the opposite ends of said frame, a guide roller removably mounted on one of said shafts, a marking roll removably mounted on the other of said shafts, a bracket extending laterally from the frame, an inking roller longitudinally adjustable on said bracket having frictional engagement with said marking roll and adapted to be rotated thereby, said marking roll being pro-



vided with identifying numerals or letters  
and peripheral ribs, pinions secured to the  
lower ends of said shafts, and a drive shaft  
mounted in bearings on said frame, said  
5 drive shaft carrying pinions engaging with  
the first named pinions substantially as and  
for the purpose set forth.

In testimony whereof I hereunto affix my  
signature in the presence of two witnesses.

GUSTAV J. LANGE.

Witnesses:

E. J. LENMARK,  
OTT. M. H. MADER.