

No. 711,639.

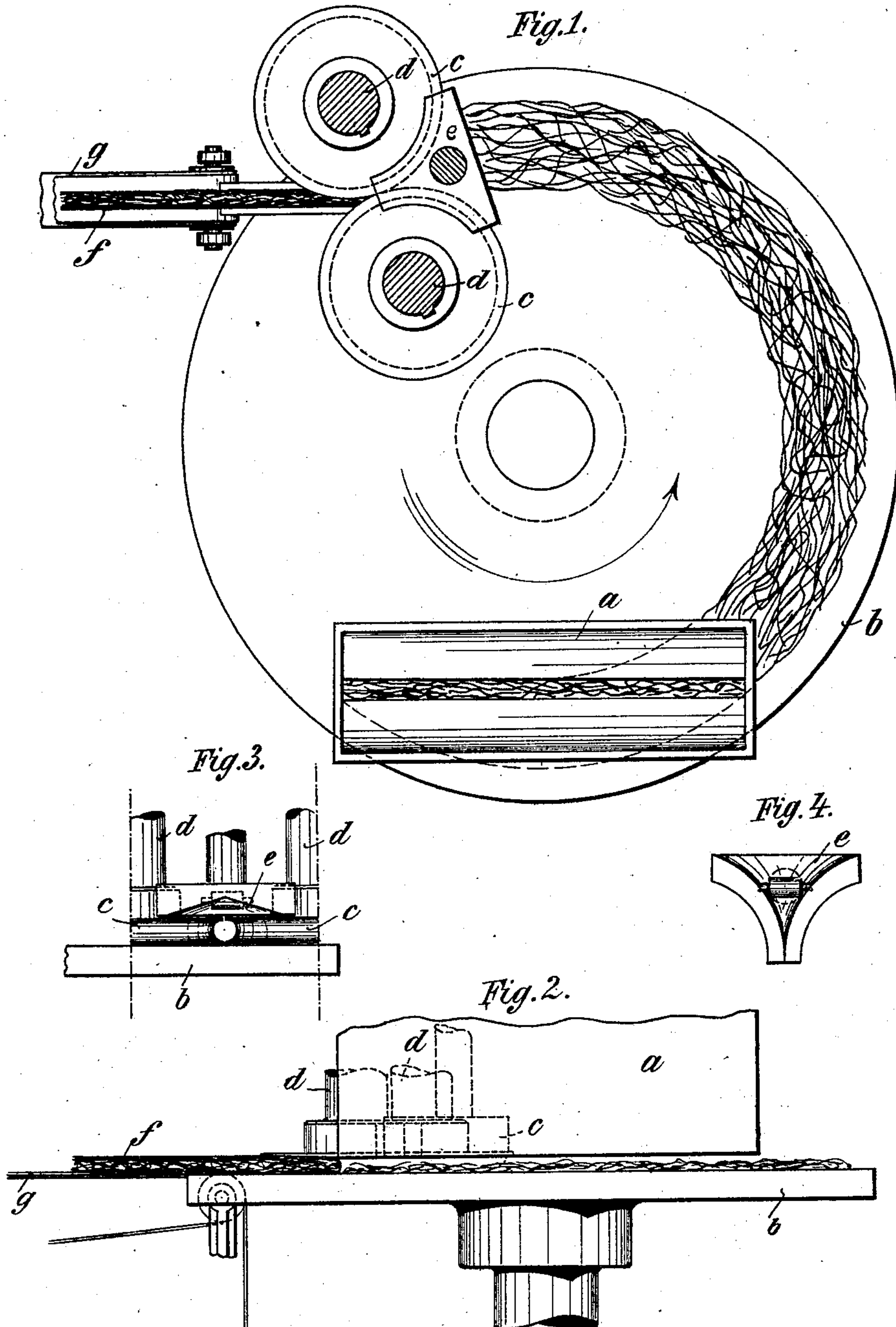
Patented Oct. 21, 1902.

E. MERKERT.

DEVICE FOR FORMING CONTINUOUS ROLLS OF TOBACCO.

(Application filed Dec. 19, 1901.)

(No Model.)



Witnesses:-

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UNITED STATES PATENT OFFICE.

ERNST MERKERT, OF KERTZDORF, NEAR LAUBAN, GERMANY.

DEVICE FOR FORMING CONTINUOUS ROLLS OF TOBACCO.

SPECIFICATION forming part of Letters Patent No. 711,639, dated October 21, 1902.

Application filed December 19, 1901. Serial No. 86,520. (No model.)

To all whom it may concern:

Be it known that I, ERNST MERKERT, a subject of the King of Saxony, and a resident of Kertzdorf, near Lauban, Saxony, Germany, have invented a certain new and useful Device for Forming a Continuous Roll of Tobacco, of which the following is a full, clear, and exact description.

The present invention consists of a device for forming a continuous roll of tobacco for use in making cigarettes, but without the employment of an endless transport band or belt.

In order to render the present specification easily intelligible, reference is had to the accompanying drawings, in which similar letters of reference denotes similar parts throughout the several views.

Figure 1 is a plan of the mechanism; Fig. 2, an elevation of the same, showing the hopper in part only. Fig. 3 is a detail elevation of the rolls; and Fig. 4, a view, seen from underneath, of a guide for preventing the tobacco from passing out above the forming-rolls.

The hopper *a* for the tobacco is mounted above the rotary table *b* and is provided with a slot at the bottom through which the tobacco passes onto the table. The latter rotates in the direction of the arrow in Fig. 1. The forming-rolls *c c* are interchangeably mounted on suitably-disposed vertical shafts *d d* and provided with peripheral grooves, as will be seen from Fig. 3, which form the roll of tobacco. In order to prevent the tobacco from passing above the forming-rolls, a guide-piece *e* is provided, having a tapered recess on its under side the mouth of which is turned toward the advancing tobacco, and the rear

part of this recess closes down onto the upper face of the forming-rolls, so that any tobacco rising above the rolls will be gradually guided down between the same again.

The operation of the mechanism takes place in the following manner: The tobacco falls onto the table from the slot in the bottom of the hopper *a*, and as the table revolves under the hopper a layer of tobacco is laid onto the table and carried to the forming-rolls *c c*, being fed to the same under the guide *e*. The peripheral grooves of the two forming-rolls cooperating form the tobacco to a continuous roll *f*, which is passed on to the transport band *g* of the cigarette-making machine. The guide *e* prevents the tobacco from rising before or in front of the rolls, and thus obviates waste. The rolls *c c* being easily interchangeable, the thickness of the roll produced may be varied at will by changing the rolls.

I claim as my invention—

A device for forming a continuous roll of tobacco consisting of a hopper having a slot at the bottom, a rotary table mounted thereunder, a pair of rotary peripherally-grooved coacting forming-rolls mounted closely above said rotary table and rotating in planes parallel to the upper surface of the table and a conically-undercut guide-piece for the tobacco, mounted at the take-in side of the said rolls substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ERNST MERKERT.

Witnesses:

EMMA PAUL,
PAUL ARRAS.