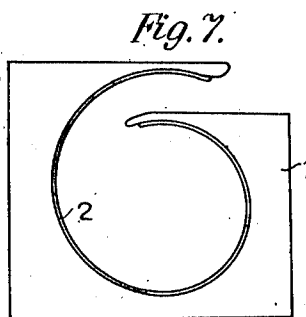
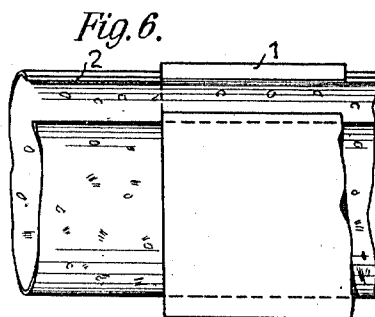
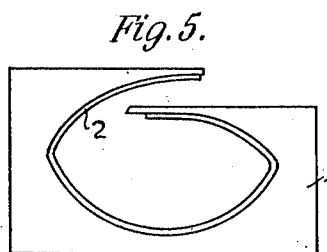
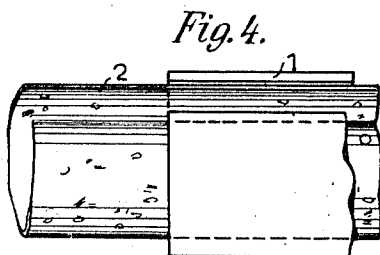
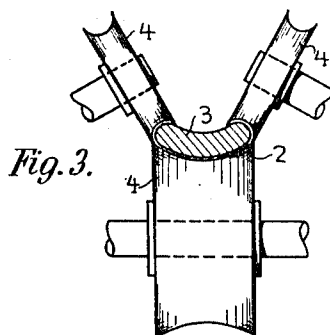
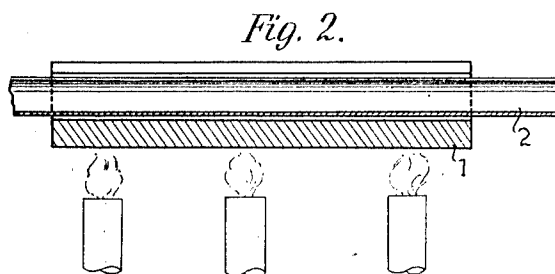
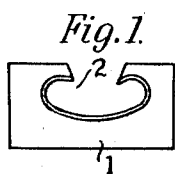


E. KOERNER.
 METHOD OF TREATING THE TIPPING MATERIAL OF CIGARETTE TUBES.
 APPLICATION FILED JUNE 15, 1912.

1,061,757.

Patented May 13, 1913.



Witnesses:
 E. H. Rickertow
 C. H. Fesler

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 Ewald Koerner,
 By *Meyers, Gershman & Rea*
 Attys.

UNITED STATES PATENT OFFICE.

EWALD KOERNER, OF DRESDEN, GERMANY.

METHOD OF TREATING THE TIPPING MATERIAL OF CIGARETTE-TUBES.

1,061,757.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed June 15, 1912. Serial No. 703,872.

To all whom it may concern:

Be it known that I, EWALD KOERNER, a subject of the Emperor of Germany, residing at Dresden, Germany, have invented a new and useful Method of Treating the Tipping Material of Cigarette-Tubes, of which the following is a specification.

In the manufacture of cigarette tubes which are tipped with some stiff mouth-piece material such as cork or the like it is difficult to obtain a smooth and continuous joint between the tipping material and the rest of the tube owing to the difference in the rigidity of the two materials.

The present invention relates to a new step in the art of applying mouth-piece material to cigarettes or cigarette tubes with a view to overcoming the difficulty above mentioned and consists in first passing the tipping material, either separately or in combination with the cigarette paper, previous to the formation of the tube, through a die which sets the edges thereof to substantially the shape they are going to have on the completed tube, and then affixing the shaped and set tipping material to the end of the cigarette. Treated in this manner the tipping material will lose its tendency to straighten out and will form a smooth continuous joint with the cigarette paper.

The die through which the materials are passed may be of various constructions and may either be used cold or adapted for heating. Several forms of such dies are illustrated by way of example in the accompanying drawings, Figure 1 representing an end view of one form of die, Fig. 2, a longitudinal section of the same, and of the material under treatment, means being shown for heating the die, Fig. 3, a view of a die composed of grooved rollers between which the strip is passed together with the shaping block, Fig. 4, a side view of another form of die, Fig. 5 an end view of the same, Fig. 6, a side view of yet another form, and Fig. 7, an end view of the latter.

In Figs. 1, 2, and 4 to 7 the die is designated 1 and the tipping material, which may consist of cork or the like, is designated 2. The tipping material is drawn through the die, as indicated in the figures, the die be-

ing formed so as to impart to the cork strip, or at least to the margins thereof, the shape or substantially the shape they are going to have on the completed cigarette tube. The strip as thus shaped and set is then applied to the mouth end of the cigarette or cigarette tube in the usual way, as for instance by hand or by suitable mechanism, and inasmuch as the mouth piece material has been shaped and set before its application to the cigarette, a smooth and continuous joint will result. The dies may be heated in any suitable manner, for instance by flames arranged as shown in Fig. 2.

The die shown in Figs. 4 and 5 is adapted to shape the tipping strip so as to fit flat-pressed cigarettes. In Figs. 6 and 7 a die is shown which bends the whole strip into a tube with overlapping ends.

According to Fig. 3 a shaping block 3 is provided which is passed together with the strip between three grooved rollers 4 set at an angle to each other. The rollers shape the strip by pressing it against the block.

Other arrangements may be resorted to as long as the stiff tipping material is bent to shape before the cigarette tube is formed and before the tipping material is affixed thereto.

I claim:—

1. The method of applying mouth-piece material to cigarettes which consists in bending and setting a strip of mouth-piece material to a shape corresponding substantially to the form of the cigarette to which said mouth-piece is to be applied and then permanently attaching the mouth-piece to an end of the cigarette.

2. The method of applying mouth-piece material to cigarettes, which consists in subjecting a piece of the said material to the simultaneous action of pressure and heat between dies shaped to bend and set said material to substantially the form of the cigarette to which the material is to be applied and then affixing the said shaped mouth-piece to an end of the cigarette.

EWALD KOERNER.

Witnesses:

PAUL ARRAS,
CLARE SIMON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."