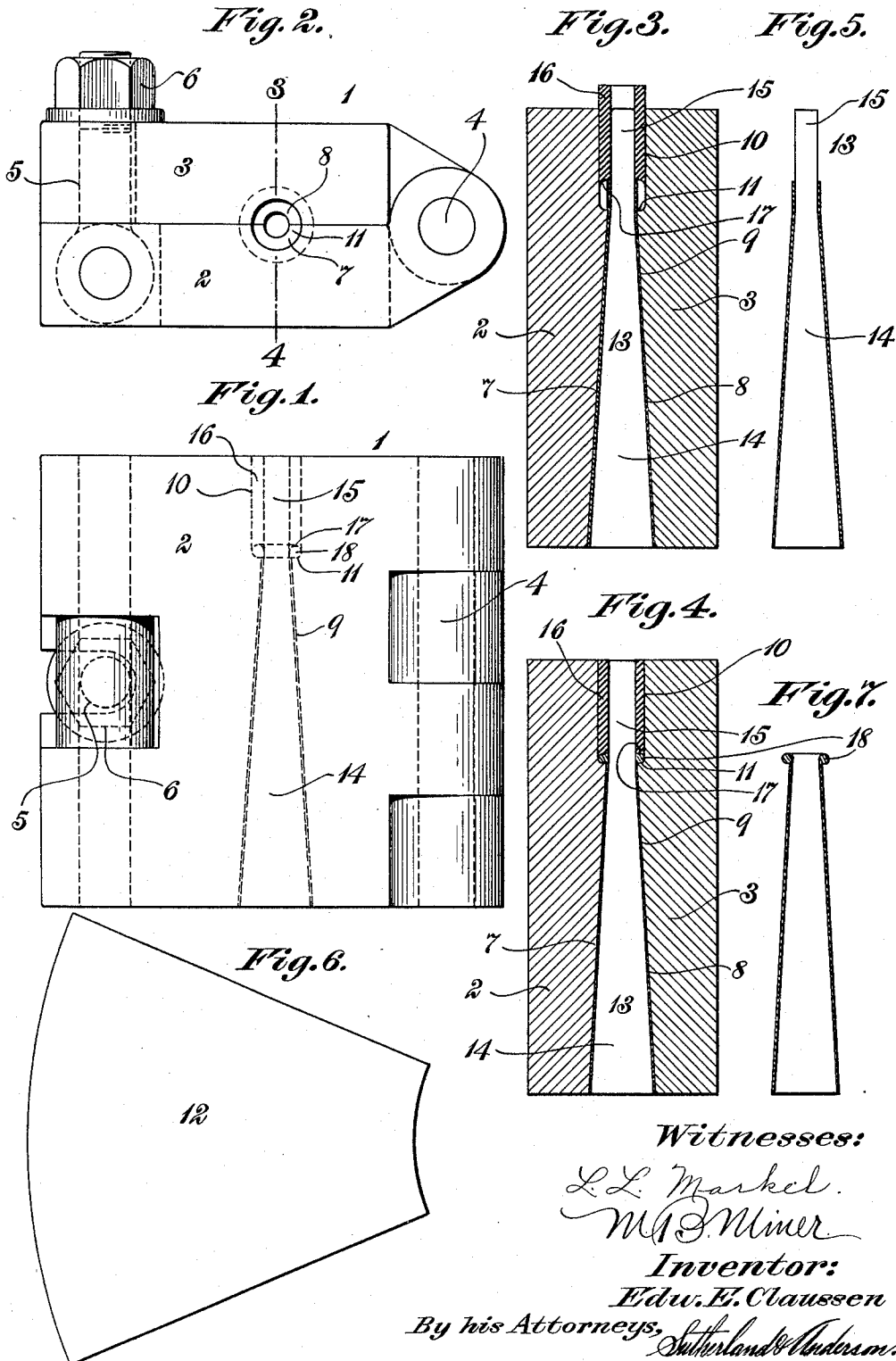


E. E. CLAUSSEN.
MOUTHPIECE.

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1,007,919.

Patented Nov. 7, 1911.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD E. CLAUSSEN, OF HARTFORD, CONNECTICUT.

MOUTHPIECE.

1,007,919.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD E. CLAUSSEN, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Mouthpieces, of which the following is a specification.

This invention relates to mouth pieces, and one of the principal objects of the invention is to provide a simple, light yet strong device of this character which can be inexpensively and rapidly made. Said mouthpiece can be used with advantage in several different connections, although it is primarily intended for employment as a cigar or cigarette holder.

Referring to the drawings: Figure 1 is a top plan view of a mold with the core or mandrel and die therein, the mouth piece being also illustrated. Fig. 2 is a side elevation of the same. Figs. 3 and 4 are sections on the lines 3—4 of Fig. 2 showing the two steps in the production of the mouth piece. Fig. 5 is a view of the core or mandrel with the tubular blank partially formed thereon. Fig. 6 is a detail of the blank in its original condition, and, Fig. 7 is a sectional view of the finished mouth piece.

Like characters refer to like parts throughout the several figures.

The mouth piece is made from a suitable blank to present a substantially conical tube, the small end of the tube being crushed down to hold the tube in shape, such crushing being preferably secured by densifying the material at the point indicated. In making the mouth piece a mold as 1 may be employed, said mold consisting of sections 2 and 3 hinged together at 4 and adapted to be clamped to each other with the bolt 5 and nut 6. The sections 2 and 3 have duplicate cavities denoted respectively by 7 and 8 which when in register present a chamber open at its opposite ends. The cavities 7 and 8 are duplicate, and a detail description of one for instance the cavity 7, will apply to the other. The cavity 7 is shown consisting of a frusto-conical portion 9 and a substantially cylindrical portion 10, there being a shoulder or seat 11 at the junction of the two portions.

The mouth piece may be made from any

suitable material, for example paper and a segmental blank 12 answers satisfactorily my purposes. After the blank is dampened, it is rotated or curled on itself in lapped or wrapped relation about a core or mandrel 13 to make a tube of paper. The mandrel or core 13 with the tubular blank is then placed in the lower cavity 7 after which the upper section of the mold is closed, and the two sections of the mold clamped together as already indicated. The core or mandrel 13 as shown consists of two adjoining portions 14 and 15, the portion 14 being tapered to approximately agree with the tapered portions of the cavities 7 and 8, while the portion 15 is preferably cylindrical. The cross sectional extent of the conical or tapered portion 14 of the mandrel or core, however, is not as great as that of the chamber presented by the mating cavities 7 and 8, and the chamber of the cylindrical portion 15 is much less than that of the cylindrical portion 10. With the blank in the mold as set forth, a hollow die or plunger 16 will be slid along the cylindrical portion 15 of the mandrel 13 and against the cylindrical portion of the tubular blank on the core or mandrel thereby crushing down the cylindrical portion of the blank, the concavities 11 and 17 on the mold and plunger respectively jointly forming a bead somewhat circular in cross section at the tip or small end of the mouth piece. When the article is dry, the mold will be opened, the core taken out and the mouth piece slipped from the core, the resultant article being a mouth piece of substantially conical form, the small end of which is crushed down.

What I claim is:

1. A mouth piece made from a blank formed on itself to present an approximately conical tube, the small end of the tube being densified to maintain the tube in shape.
2. A mouth piece made from a blank to present a substantially conical tube, the small end of the tube being crushed down to hold the tube in shape.

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

EDWARD E. CLAUSSEN.

Witnesses:

EDWARD L. STEELE,
FLORENCE E. RILEY.