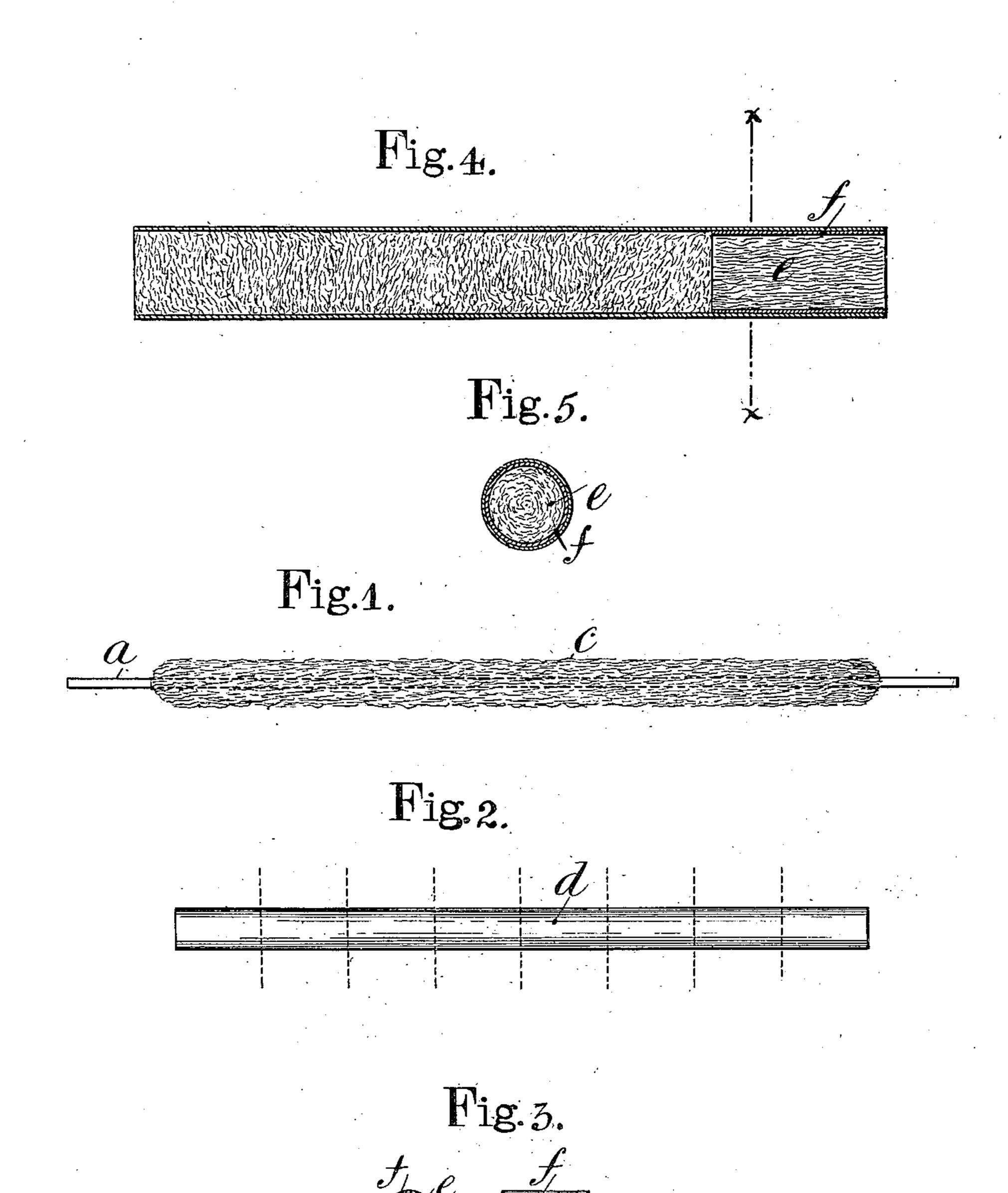
J. CAVARGNA. CIGARETTE. APPLICATION FILED AUG. 13, 1906.



Witnesses
Muss L. Horris, S.
Charles Consider

James Lo. Vorres.

STATES PATENT OFFICE.

JOSEPH CAVARGNA, OF BIRMINGHAM, ENGLAND.

CIGARETTE.

No. 856,030.

Specification of Letters Patent.

Patented June 4, 1907.

Application filed August 13, 1906. Serial No. 330,395.

To all whom it may concern:

Be it known that I, Joseph Cavargna, a subject of the King of Great Britain, residing at 379 Ladypool road, Birmingham, in the 5 county of Warwick, England, agent, have invented certain new and useful Improvements in Cigarettes, of which the following is a specification.

My invention relates to absorbent mouth-10 pieces or plugs for cigarettes and comprises the hereinafter described improvement con-

nected therewith.

It has many times been previously proposed to provide a cigarette with a mouth-15 piece or plug of medicated cotton wool or other suitable absorbing and filtering material: the end of a cigarette has been plugged with loose cotton wool: a plug of cotton wool has peen inserted within a short-length card-20 board tube and then this tube has been rolled up with the tobacco in rolling a cigarette, and a plug has been formed by rolling up a flat layer of absorbent material into cylindrical form to be inserted or rolled up with 25 the cigarette.

According to my present invention I form a plug of medicated cotton wool or other suitable absorbent material as formerly, but use during its formation, or afterward, a 30 suitable mucilage to cause its particles to sufficiently adhere to ultimately provide a plug which can be conveniently, and without any fear of losing its shape and size, handled for insertion into, or rolling up with the to-35 bacco of, a cigarette. It is sufficient to use the mucilage upon the longitudinal exterior only of the plug to form a thin external coating or layer, as this adequately binds the particles of the plug, gives it a smooth exterior, 40 and makes it to a sufficient extent resistant against moisture and saliva. To produce my plug I first roll a layer of cotton wool or other material upon a thin spit or wire, and then coat this rolled up layer with a suitable 45 mucilage by rolling the said layer upon a surface to which the mucilage is applied, thereby binding the particles of the cotton wool properly together and providing a thin exterior coating of mucilage upon the longitu-50 dinal surface of the rolled-up layer which in preferably cylindrical and parallel. For commercial manufacture I preferably produce a long length of such coated rolled up

absorbent, and then cut off from this plugs of

55 the required length.

description hereinafter my invention will be

clearly understood.

Figure 1 shows the manner of treating the absorbent material previous to the application 60 of the mucilage. Fig. 2 shows the absorbent material after having been treated with the mucilage ready to be cut into a number of plugs. Fig. 3 represents one of these plugs, and, Fig. 4 shows its application to a ciga- 65 rette. Fig. 5 is a sectional view taken along

line x-x of Fig. 4.

Upon a spit or wire length a I roll a layer of medicated cotton wool, or other suitable material for the purpose, in the manner rep- 70 resented at c in Fig. 1, paying the requisite attention to the diameter of the roll in view of the size of the cigarette for which it is to be used. While on the wire I roll the rolledup wool upon a surface coated with a suitable 75 mucilage, which when dry binds the wool together and gives a coated cotton wool length d substantially in accordance with Fig. 2. From this length, Fig. 2, I cut a number of plugs as in Fig. 3, the interior cotton 80 wool e being externally coated with a cylindrical layer f of the mucilage. Such a plug is flexible, perfectly easy to handle, and sufficiently porous to admit the free passage therethrough of the products from smoking, 85 at the same time filtering the smoke and absorbing the nicotine. I now roll the plug Fig. 3 in with the tobacco of the cigarette as represented in Figs. 4 and 5 so that it becomes a part of the said cigarette at the end. 90

The use of the mucilage as described in the production of the plug is the invention; it will be seen from Fig. 1 that the rolled layer is externally fluffy and irregular and quite unsuitable for handling and insertion in a 95 cigarette, but that when treated with the mucilage as in Fig. 2 the particles of the layer are adequately bound and made to adhere and a length is produced which by the external coating of mucilage becomes smooth ico and regular upon its periphery without interfering with the flexibility of it, and it will be quite obvious that the above features are very important as its external diameter requires to be carefully con- 105 sidered in the manufacture of such a plug, because the plug has got to nicely fit the cigarette paper so that it may be either rolled in or pushed in with a good smoke-tight joint between the periphery of the plug and the paper 110 of the cigarette. The mucilage also pro-By the accompanying drawings and the | vides between the interior of the plug and the

mouth of the smoker a sufficiently moisture-

proof layer.

Any suitable mucilage may be used for the purpose of coating and binding the rolled-up 5 cotton wool, but the following is a special mucilage which is most advantageous in view of aroma and hygienic smoking viz:-gum arabic, tragacanth, precipitate of chalk, a little ether or spirits of wine, and a little 10 albumen, glycerin, and chlorate of potassium, a suitable composition being made by carbonate of lime, 8.78, gum arabic 9.25, tracanth 2.25, ether 0.25. spirits of wine 0.15, albumen, 0.65, glycerin 0.55, and po-15 tassium chlorate 0.15.

Having thus described my invention what

I claim and desire to secure by Letters Patent is:—

1. As a new article of manufacture, a cigarette having a plug of medicated absorbent 2c material with an external flexible binding.

2. As a new article of manufacture, a cigarette having a plug of medicated absorbent material with an external flexible binding of mucilage.

In testimony whereof I have hereunto set my hand in the presence of two subscribing

witnesses.

JOSEPH CAVARGNA.

•

Witnesses:

GEO. FUERY, FRANCIS ARTHUR BERINS.