Oct. 6, 1931. E. BOECKEL 1,826,237

CIGARETTE AND CIGAR HOLDER

Filed Sept. 7, 1929

Fig. 1

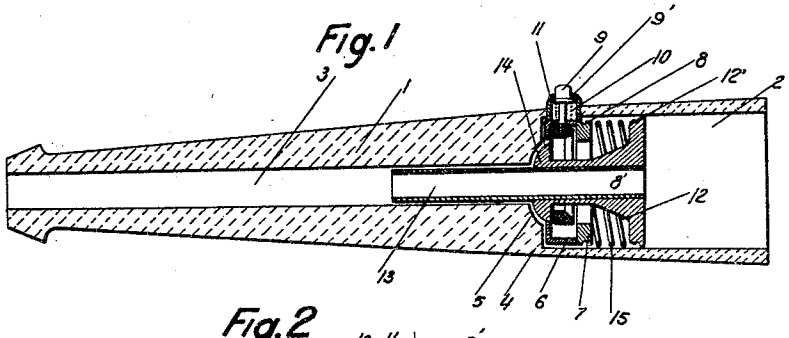


Fig. 2

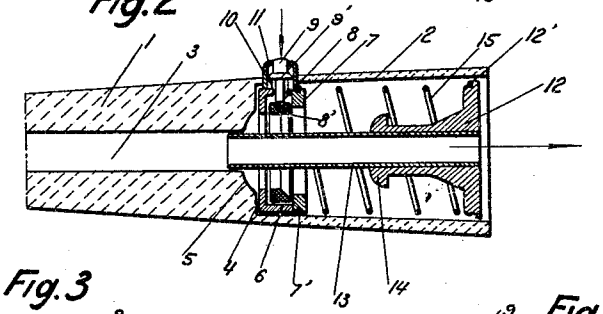


Fig. 3

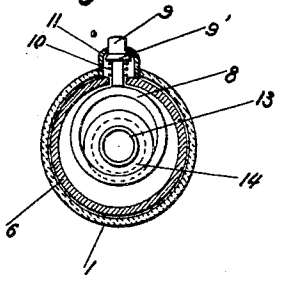


Fig. 4

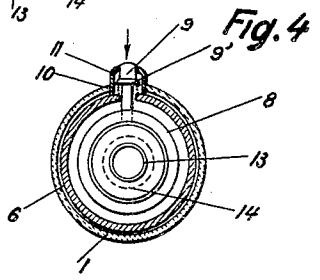
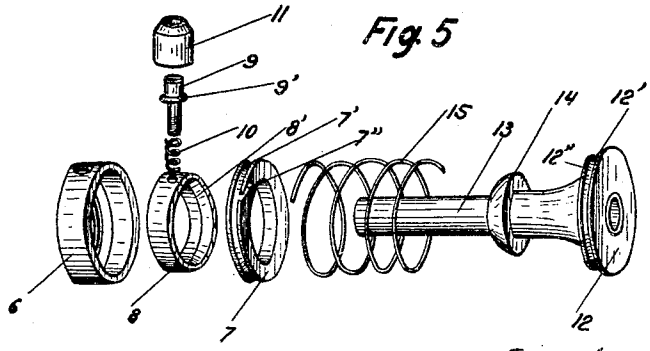


Fig. 5



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Patented Oct. 6, 1931

1,826,237

UNITED STATES PATENT OFFICE

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CIGARETTE AND CIGAR HOLDER

Application filed September 7, 1929, Serial No. 391,017, and in France August 22, 1929.

This invention has for object a new arrangement for extracting and ejecting automatically out of cigarette or cigar holders the end of the cigarette or cigar when the latter has been smoked.

It is in fact annoying and disagreeable, especially for a lady to have to extract the stub-end remaining in the holder by hand or with some article at hand as for instance the point of a match or a pin.

The new arrangement permits of extracting and ejecting automatically the end of the cigarette which remains, by simple pressure on a small lateral knob or pusher which by reason of its disposition and nature constitutes moreover a supplementary ornament for the holder. Further the new arrangement by reason of its construction is applicable to all shapes and to all dimensions of cigarette or cigar holder and not exclusively to a particular type.

The arrangement consists essentially as follows:

Of an extracting piston housed in the holder disposed axially as well as its tubular guiding stem for the passage for the smoke and provided with a spring which constantly tends to push it towards the rear and retaining pin to hold it in the position wherein the spring is loaded.

Of a retaining ring for the pin for the piston, enclosed in a cap through which the pin for the piston passes and the guide tube for the latter, said retaining ring being eccentrically disposed so as to catch and retain the pin for the piston but capable of receiving a translatory movement in its plane by the action of a small spring plunger extruding to the outside surface of the holder in such a manner as to come concentrically with the piston and its pin to free the latter and allow the piston to slide forwardly under the action of its spring.

The accompanying drawings show by way of example at: Figure 1 a cigarette holder fitted with the device seen in longitudinal section the piston occupying its most rearward position so that the cigarette may be fitted and smoked; Figure 2 the same holder likewise seen in longitudinal section, the plunger being pushed in and the piston freed so expelling the end of the smoked cigarette; Figs. 3 and 4 two cross sectional views taken at right angles to the longitudinal axis of the holder through the plunger, these figures corresponding respectively to the position occupied by the plunger and the retaining ring in Figs. 1 and 2; Fig. 5 the several members constituting the device seen in perspective before assembly.

To permit of the application of the said device, the cigarette or cigar holder 1, which may be of any dimension and of any suitable external section: round, hexagonal, square and so on and one or several parts but not formed with a gradually decreasing section of bore but with a forward housing 2 which is cylindrical or slightly trunconic and a smoke conduit 3 of lesser diameter, the housing 2 so comprising an end wall 4 and a hemispherical cup 5.

At the end of the housing 2 is disposed a small capsule 6 and its cover 7, both being bored through their centres and enclosing the engaging ring 8 the central bore of which is chamfered on one side 8′ to facilitate the introduction of the retaining pin of the extracting piston and provided with a small screw thread on its periphery.

A small plunger 9 the head of which protrudes on the side of the holder through an orifice provided for this purpose, is screwed in the lateral screw thread of the engaging ring 8. A small spring 10 is fitted on the stem of this plunger and bears at one end against the abutment 9′ provided on the plunger and at the other end against the cap 6 through which slides the stem of the plunger. Finally a small pressed on casing 11 encloses the spring 10 and at the same time serves to prevent the entry of air through the orifice left for the passage of the plunger.

A piston 12 bored at its centre slides in the housing 2 and is integralized with a guiding tube 13 fitted in the passage 3 so as to slide therein and give a conduit for the smoke. This piston is provided with a retaining pin 14 which, when the piston is pushed back for the introduction of the cigarette in the housing 2, penetrates into an orifice in the

cover 7 of the engaging ring 8 and of the bottom of the cap 6 and is then retained by the ring 8 which the spring 10 of the plunger forces to constantly take up an eccentric position as shown in Figs. 1 and 3 when the plunger is not pushed upon.

A helical spring 15 compressed between the cover 7 and the piston 12 is integralized therewith by the introduction of its extremities in grooves 7′ and 12′ of a recess 7″ and 12″ formed on said cover and piston respectively.

Alternatively a cylindrical pin not shown, can be fitted inside the housing 2 and serve as cylinder for piston 12.

The arrangement so constructed functions in the following manner.

When a cigarette is pushed into the housing 2, spring 15 which is sufficiently strong to expulse the finished ends of a cigarette is not strong enough to prevent the insertion of a fresh cigarette or to damage it. The piston 12 therefore gives away and is pushed backwards to the end of the housing 2. The pin 14 enters a cap 6, carries the engaging ring 8 slightly towards the centre by reason of the chamfer 8′ so as to enter it then permits this ring to return to its original eccentric position so that thereafter it can oppose the forward movement of the piston, keep the spring 15 loaded and prevent the lighted cigarette from being unintentionally ejected.

The drawing of the cigarette is ensured and the inhalation of the smoke takes place through the tube 13. When the cigarette is almost finished and one is about to insert a new one or put aside the holder it is only necessary to lightly press with the finger on the small lateral plunger 9 which pushes back the ring 8 and causes it to slide in the cap 6 in order to take up a position such that it is concentric with the tube of the piston. The pin 14 of slightly less diameter to the orifice of the retaining ring being then no longer engaged and since a passage is opposite it, it no longer opposes the action of the spring 15 which detends, pushes back the piston 12 and expulses the end of the cigarette from the holder.

The cigarette or cigar holder constructed with such an arrangement can not only have any shape or dimension as already stated but can be made of all substances usually employed for such holders while the parts of the ejecting device susceptible of being seen can be made of ordinary or precious metals naturally with the exception of the springs.

The head or knob of the plunger which projects externally of the holder and which is one of the main characteristics of the device can be fitted with a precious stone or an imitation fitted in a ring surrounding the holder or in an engraved crown ornamented with brilliants and so on formed by the edge of the casing surrounding the plunger 11.

I claim:

1. In a holder for cigars and cigarettes means for expelling stub ends comprising a piston adapted to slide in a recess in the holder a slidable smoke tube carrying said piston a spring disposed exteriorly of said smoke tube adapted for propelling said piston, a housing in said holder, a ring mounted for lateral movement in said housing, a stud carried by said ring said stud normally projecting laterally to the exterior of the holder, means for retaining said ring eccentrically of the holder, and means upon the smoke tube for engaging said eccentrically disposed ring to retain the piston in its retracted position said ring being moved into concentric position to release said piston upon pressing said stud.

2. In a holder for cigars and cigarettes, means for expelling stub ends comprising a piston for ejecting the stub ends housed in a recess in the holder, an axial guide tube carrying said piston the smoke passing through said tube, a spring for propelling said piston, a member for retaining said piston retracted, said member being carried by said guide tube, a casing located in the bore of the holder, said casing being provided with a hole through which said guide tube passes a ring mounted in said casing, said ring being capable of lateral displacement, a peripheral stud carried by said ring said stud projecting laterally through the exterior of the holder and means for holding said ring eccentrically of the holder, said ring being eccentrically disposed when the stud is not pressed to engage the retaining member said ring becoming concentrically disposed to release the piston on pressure being applied to said stud.

EMILE BOECKEL.