

H. E. COATES.
SMOKING DEVICE.

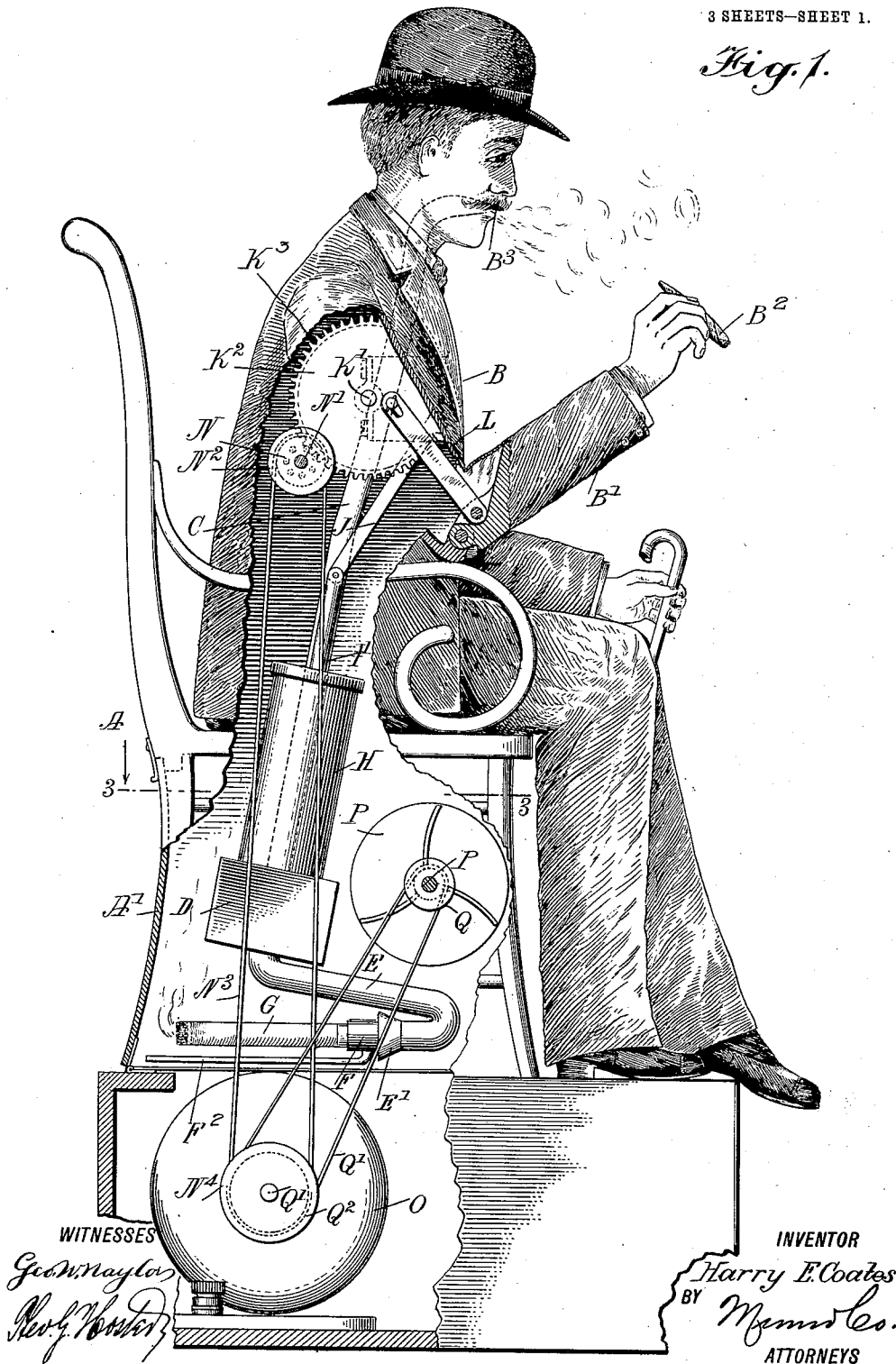
APPLICATION FILED AUG. 21, 1911.

1,017,384.

Patented Feb. 13, 1912.

3 SHEETS—SHEET 1.

Fig. 1.



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3 SHEETS—SHEET 2.

Fig. 2.

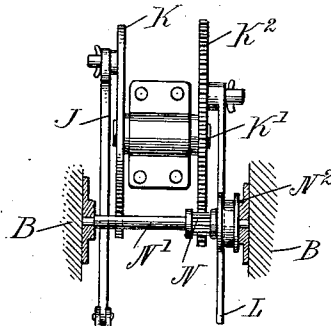


Fig. 3.

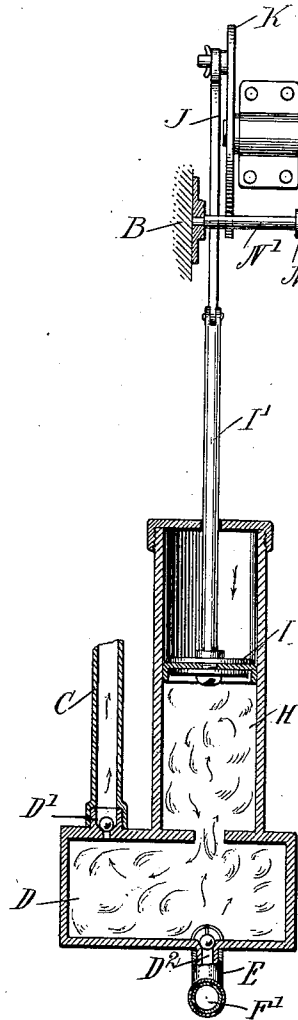
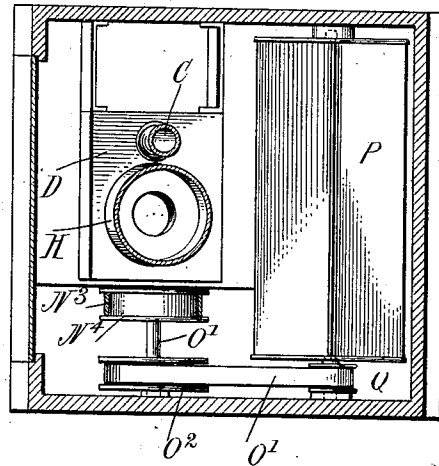
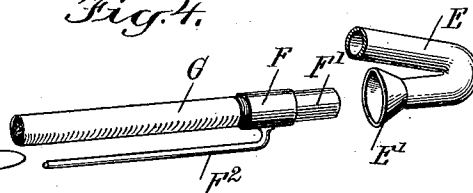


Fig. 4.



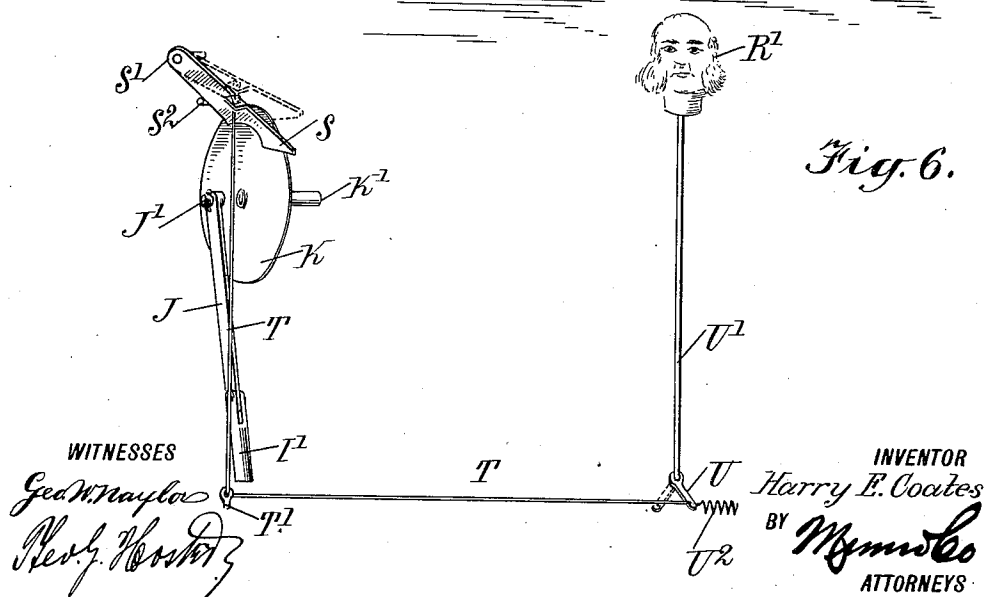
WITNESSES

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1,017,384.

3 SHEETS—SHEET 3.



UNITED STATES PATENT OFFICE.

HARRY EDWARD COATES, OF SACRAMENTO, CALIFORNIA.

SMOKING DEVICE.

1,017,384.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed August 21, 1911. Serial No. 645,085.

To all whom it may concern:

Be it known that I, HARRY E. COATES, a citizen of the United States, and a resident of Sacramento, in the county of Sacramento and State of California, have invented a new and Improved Smoking Device, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved smoking device, more especially designed for use as an advertising medium in cigar stores and other places, and arranged to simulate a person in the act of smoking a cigar, cigarette, pipe or other smoker's article.

For the purpose mentioned, use is made of a hollow figure, simulating a smoker, and mounted on a chair or other support, the mouth of the figure being connected at the inside with a valved discharge pipe leading from a smoke box connected with a suction holder for a cigar, cigarette or a like smoker's article, a cylinder connected with the smoke box and containing a piston, an actuating mechanism adapted to be driven by hand or by power and connected with the piston rod of the said piston, so that the smoker's article is gradually burned and the smoke is discharged through the mouth of the figure. Use is also made of a smoke-scattering device for scattering the smoke arising from the burning end of the cigar, cigarette or other smoker's article, and in order to simulate smoking by the figure, the hand of one forearm carries an imitation cigar, cigarette or a like smoker's article, and the forearm is movable, and is connected with the said actuating mechanism so that the imitation smoker's article is carried to and from the mouth of the figure in unison with the action of the piston in the cylinder.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the smoking device, parts being shown in section; Fig. 2 is a transverse section of the operating mechanism; Fig. 3 is a sectional plan view of the smoking device on the line 3—3 of Fig. 1; Fig. 4 is a perspective view of the holder for the cigar, cigarette or other

smoker's article, and shown disconnected from the suction pipe. Fig. 5 is a perspective view of a modified form of the smoking device; and Fig. 6 is a perspective view of the actuating mechanism for the second non-smoking figure shown in Fig. 5.

The smoking device illustrated in Figs. 1, 2, 3 and 4, is mounted on a suitably constructed support A, the lower portion of which is in the form of a box having a door A' at the rear, and the upper portion appearing as a chair on which is seated the figure B of a person, having a hollow body, and provided with an articulated forearm B', carrying in its hand a cigar, cigarette or other smoker's article B². The forearm B' is arranged to swing up and down, and the smoker's article B² is adapted to register with the open mouth B³ of the figure B at the time the forearm B' is in its uppermost position. A smoke delivery pipe C extends within the hollow body of the figure B and terminates at the mouth B³. and the lower end of the said pipe C extends down into the support A and connects with a valved discharge or outlet D' arranged on the top of a smoke box D, provided at its bottom with a valved suction inlet D², connected with one end of an elbow E, provided at its other end with a flaring or a funnel-shaped mouth E', as plainly indicated in Figs. 1 and 4. The mouth E' serves as a guide for inserting the stem F' into the end of the elbow E, the stem F' projecting from a holder F adapted to carry a cigar, cigarette or similar article G, of tobacco, adapted to be ignited at the outer end and smoked, on producing a suction action in the smoke box D. The holder F is provided with a bar F² for conveniently inserting the stem F' into the elbow E or removing it therefrom, the said bar F² extending approximately parallel to the axis of the holder F, and the bar being preferably of a length somewhat in excess of that of the article G, to permit of conveniently taking hold of the bar F² for inserting or removing the holder F from the elbow E.

The top of the smoke box D is connected with the lower end of a cylinder H, in which reciprocates a piston I, having a piston rod I' connected by a pitman J with a crank disk K held on the shaft K', journaled in the hollow body of the figure B, and on the

shaft K' is a second crank disk K² connected by a pitman L with the articulated arm B', so as to impart an up and down swinging motion to the same at the time a reciprocating motion is given to the piston I in the cylinder H; that is, the arm B' swings downward on the downward movement of the piston I and swings upward on the upward movement of the said piston.

10 The crank disk K² is preferably provided at its peripheral face with teeth K³, in mesh with a pinion N secured on the shaft N' journaled in suitable bearings arranged in the hollow body of the figure B. On the shaft N' is secured a pulley N² over which passes a belt N³ also passing over a pulley N⁴ secured on the shaft O' of a motor O, of any approved construction; that is, the motor may be a spring motor, an electric motor, or the like. The shaft O' may also be rotated by hand, if desired, by the use of a crank arm or other device applied to the shaft. Now when the motor O is running a rotary motion is transmitted to the shaft N' which by the pinion N and the gear teeth K³ of the disk K² rotates the shaft K', so that the two disks K and K² and their pitmen J and L impart simultaneously a reciprocating motion to the piston I and a swinging motion to the arm B'. During the upstroke of the piston I, a suction action is produced in the cylinder H, and the smoke box D, the elbow E and the holder F, to cause the cigar, cigarette or a like article G to burn and to draw the smoke into the smoke box D. On the downward stroke of the piston I the smoke is forced out of the cylinder H and through the valved outlet D' into and up through the smoke pipe C, so that the smoke finally issues through the mouth B³ of the disk B at the time the arm B' swings downward. Within the support A is arranged a fan P carrying on its shaft P' a pulley Q connected by a belt Q' with a pulley Q² secured on the motor shaft O', so that when the motor is running and the article G is burning then the fan P is rotated to scatter the smoke arising from the burning end of the article G, the scattered smoke readily passing out through crevices in the support A, but in such a scattered condition that it will not be noticeable.

From the foregoing it will be seen that by the arrangement described the smoking device when in use simulates a person in the act of smoking a cigar, cigarette, pipe or other smoker's article, as the smoke is blown intermittently through the mouth of the figure B and at the time the arm B' is on a downward swinging motion. When the arm B' swings upward the issuing of the smoke through the mouth B³ ceases, and when the arm B' reaches an uppermost position, then the end of the imitation cigar,

cigarette or like article G registers with the mouth B³, thus simulating a draw on the article B² by the figure B thereby adding to the simulation of a person in the act of smoking.

By the use of the door A' ready access is had to the holder F for removing or replacing the same in the elbow E and for lighting the cigar or cigarette G.

In the modified form shown in Figs. 5 and 6, use is made of an additional non-smoking figure R mounted on the support A adjacent to the smoking figure B, which is identical in operation as above described in reference to Figs. 1, 2, 3 and 4.

The figure R has a turnable head R' which is periodically turned by a suitable device, preferably one that is actuated from the mechanism connected with the smoking figure B. As shown in Figs. 5 and 6, use is preferably made of the crank disk K, which by its crank pin K' imparts an intermittent swinging motion to an arm S fulcrumed at S' with the figure B and normally resting on a stop pin S². The arm S is connected with one end of a cord T extending downwardly within the figure B and the support A to pass through an eye T and then extend horizontally within the support A to finally connect with an arm U held on a vertical shaft U' journaled within the support A and the hollow figure R, the upper end of the shaft U' carrying the head R'. A spring U² presses the arm U to return the arm and its shaft to normal position, it being understood that when the arm S is swung upward a pull is exerted on the cord T to turn the shaft U' and the head R', and when the arm S is released by the wrist pin T' then the arm S swings downward and the cord T, shaft U' and head R' are returned to normal position by the spring U².

By the addition of the second non-smoking figure it is intended to express the contrast between the qualities of a good and a bad cigar.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A smoking device, comprising a hollow figure, simulating a smoker and having an articulated arm provided in the hand with an imitation smoker's article, a pipe connected with the mouth of the figure at the inside thereof, a smoke box having a valved discharge connection with the said pipe and having a valved suction inlet, a holder connected with the said inlet and adapted to carry a smoker's article, a cylinder connected at one end with the said smoke box, a piston reciprocating in the said cylinder, and an actuating device connected with the said piston and with the said arm, the said arm and piston moving in unison.

2. A smoking device, comprising a hollow figure, simulating a smoker, and having an articulated arm provided in the hand with an imitation smoker's article, a pipe connected with the mouth of the figure at the inside thereof, a smoke box having a valved discharge connection with the said pipe, and having a valved suction inlet, a holder connected with the said inlet and adapted to carry a smoker's article, a cylinder connected at one end with the said smoke box, a piston reciprocating in the said cylinder, and a scattering device for scattering the smoke arising from the burning end of the smoker's article.

3. A smoking device, comprising a hollow figure, simulating a smoker and having an articulated arm provided in the hand with an imitation smoker's article, a pipe connected with the mouth of the figure at the inside thereof, a smoke box having a valved discharge connection with the said pipe and having a valved suction inlet, a holder connected with the said inlet and adapted to carry a smoker's article, a cylinder connected at one end with the said smoke box, a piston reciprocating in the said cylinder, a scattering device for scattering the smoke arising from the burning end of the smoker's article, and driving means for simultaneously driving the said actuating device and the said scattering device.

4. A smoking device, comprising a hollow figure, simulating a smoker and having an articulated arm provided in the hand with an imitation smoker's article, a pipe connected with the mouth of the figure at the inside thereof, a smoke box having a valved discharge connection with the said pipe and having a valved suction inlet, a holder connected with the said inlet and adapted to carry a smoker's article, a cylinder connected at one end with the said smoke box, a piston reciprocating in the said cylinder, a driven shaft carrying crank disks, a pitman connecting one of the crank disks with the piston rod of the said piston, and a pitman connecting the other crank disk with the said articulated arm.

5. A smoking device provided with a hollow figure simulating a smoker, a holder for holding a smoker's article, a suction and discharging device for producing a suction on the said holder to draw smoke from the smoker's article and discharging the smoke through the mouth of the said figure, and a scattering device for scattering the smoke

arising from the burning end of the smoker's article.

6. A smoking device provided with a hollow figure simulating a smoker, a holder for holding a smoker's article, a suction and discharging device for producing a suction on the said holder to draw smoke from the smoker's article and discharging the smoke through the mouth of the said figure, a fan adjacent the said holder, and driving means for actuating the said suction and discharging device and the said fan.

7. A smoking device provided with a smoke box having a valved inlet provided with a funnel-shaped mouth, and a tubular holder for carrying a smoker's article and adapted to be inserted into the said valved inlet, the said holder having a bar for removing or inserting the holder.

8. A smoking device provided with a smoke box having a valved inlet provided with a funnel-shaped mouth, and a tubular holder for carrying a smoker's article and adapted to be inserted into the said valved inlet, the said holder having a bar for removing or inserting the holder, the bar extending approximately parallel to the axis of the holder and the said bar being of a length to project beyond the outer end of the smoker's article carried by the holder.

9. A smoking device, comprising a hollow figure, simulating a smoker and having an articulated arm provided in the hand with an imitation smoker's article, a pipe connected with the mouth of the figure at the inside thereof, a smoke box having a valved discharge connection with the said pipe and having a valved suction inlet, a holder connected with the said inlet and adapted to carry a smoker's article, a cylinder connected at one end with the said smoke box, a piston reciprocating in the said cylinder, an actuating device connected with the said piston and with the said arm, the said arm and piston moving in unison, a second figure adjacent the first-named figure, having a movable head, and a connection between the said movable head and the said actuating device for periodically turning the said head.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HARRY EDWARD COATES.

Witnesses:

ANGUS E. MACDONALD,
W. F. RENFRO.