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A. M. RAY

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SMOKING STAND

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Fig. 1.

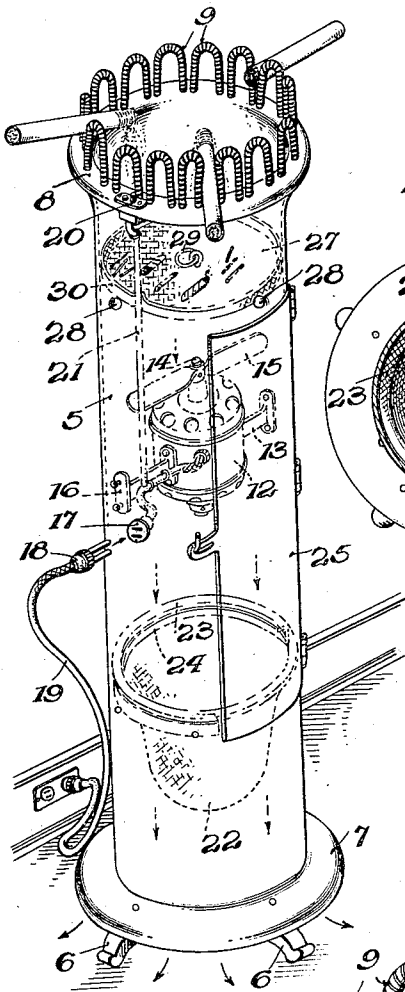


Fig. 3.

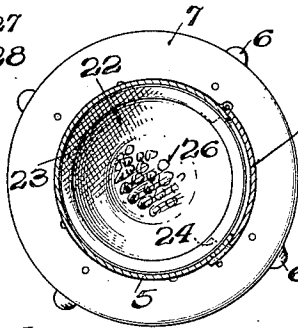


Fig. 2.

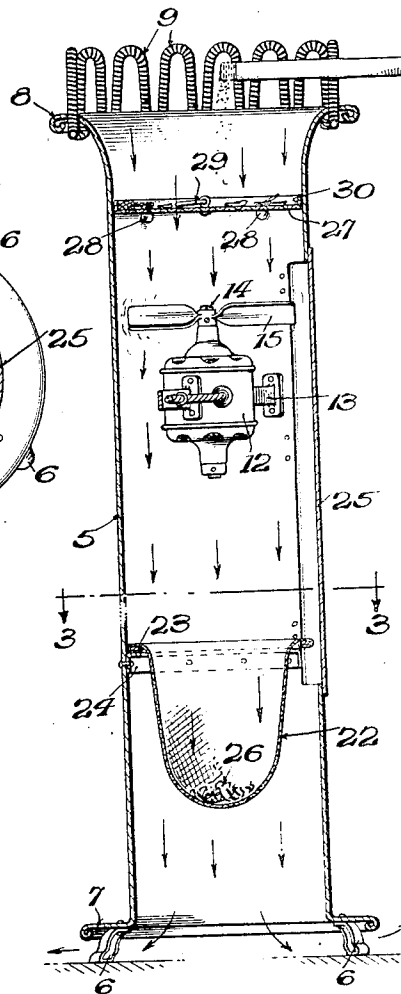
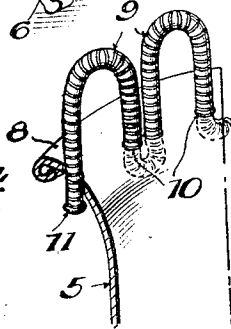


Fig. 4.



Inventor

Alvis M. Ray

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Cameron, Kerkam & Sutton Attorneys

UNITED STATES PATENT OFFICE

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SMOKING STAND

Alvis M. Ray, Tacoma, Wash.

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15 Claims. (Cl. 131—51)

This invention relates to smoking stands, and more particularly to devices of this character which are adapted to both receive the ashes of, and prevent the escape into the atmosphere of smoke from, a lighted cigar or cigarette.

Although various forms of ash receivers are already known which are intended to minimize or prevent the continued escape of smoke into the air from a cigar or cigarette after the smoker has finished with it and placed it in the receiver, these prior devices are neither intended to, nor do they in fact, have any effect upon the smoke from lighted cigars or cigarettes which are only temporarily laid down by the smokers.

It is therefore one of the objects of the present invention to provide a smoking stand of new and unusual construction which will not only constitute a smoke-suppressing receiver for ashes and butts, but will also include novel means for supporting lighted cigars and cigarettes which are still in use in such a manner as to prevent the smoke therefrom from escaping into the atmosphere and fouling the air of the room in which the stand is located.

Another object is to provide an improved smoking stand in which is embodied unique means for preventing the accumulation of a long ash on the end of a cigar or cigarette temporarily placed on the stand by the smoker.

A further object is to provide an ash receiver of such construction that a lighted cigar or cigarette may be safely supported thereby without danger of accidental displacement and in such position that the ashes and smoke therefrom are automatically drawn into the receiver and there absorbed.

Still another object is to provide a smoking accessory of the character referred to which will automatically extinguish a lighted cigarette supported thereby after the latter has burned down to the point of support.

A still further object is to provide a new and improved ash receiver in which a draft of air is created and utilized for sucking down into the body of the receiver all ash and smoke from cigars and cigarettes which may be placed on the receiver, and which also embodies means for effectively preventing the escape therefrom into the atmosphere of both the smoke and smell of the tobacco.

These and other objects, including the provision of suitable means for readily removing ashes, butts, match sticks and the like from the device and for controlling the operation of and gaining access to the draft producing element of

the structure, will appear more fully upon a consideration of the detailed description of the embodiment of the invention which follows. Although only one specific form of smoking stand embodying the invention is described and illustrated in the accompanying drawing, it is to be expressly understood that this drawing is for purposes of illustration only and is not to be construed as defining the limits of the invention, reference being had to the appended claims for this purpose.

Referring now to the drawing, wherein like reference characters indicate like parts throughout the several views:

Fig. 1 is a perspective view, with certain of the internal parts shown in broken lines, of one form of smoking stand embodying the present invention;

Fig. 2 is a vertical sectional view, with certain parts shown in full, taken along the axis of the embodiment of Fig. 1;

Fig. 3 is a horizontal sectional view taken substantially on line 3—3 of Fig. 2; and

Fig. 4 is a fragmentary perspective view of a portion of the top of the stand shown in Fig. 1 to indicate the construction of the means which are provided for temporarily holding lighted cigars and cigarettes.

In the relatively simple form shown the smoking stand of the present invention comprises a substantially cylindrical body portion or casing 5, which may be made of any suitable material such as sheet metal, open at both ends with a passageway therebetween and supported at the bottom by suitable feet 6 which are secured to the bottom of an apron or base portion 7 formed integrally with and extending horizontally from the body portion 5. It will be noted that feet 6 support the body portion 5 above the floor so that there is ample space provided for the circulation of air from the inside of body portion 5 downwardly and outwardly through the open bottom thereof.

The top of body portion 5 may be curved outwardly in any suitable manner so as to provide a substantially horizontal ledge 8 on which is mounted the means for securely holding cigars or cigarettes temporarily laid down by the smokers. In the form illustrated, the supporting means comprises a series of upwardly extending loops 9 of coiled wire which are circumferentially spaced around the periphery of ledge 8 sufficiently close to one another that a cigar or cigarette which is placed between adjacent loops

will be resiliently engaged thereby and securely held against accidental displacement.

The spring tension in supporting loops 9 is also so proportioned that the pressure exerted thereby against the sides of a cigarette pinches or squeezes the tobacco sufficiently tightly to extinguish the cigarette when it burns down to the point at which it is engaged by the loops. This feature is particularly useful in putting out lighted cigarettes which have been placed between loops 9 and then forgotten or discarded. The ends of loops 9 may be secured to ledge 8 in any suitable way, a simple construction being to form all of the loops out of a single piece of coiled wire and to thread the same through suitable holes 10 which are formed in ledge 8 in pairs, as indicated in Fig. 4. The two ends of the coil may be prevented from pulling out of their respective holes in any desired manner, as by threading a large headed screw 11 into the coil as shown.

With this construction, it will be seen that the lighted ends of the cigars or cigarettes which are placed between holding loops 9 project inwardly over the hollow interior of body portion 5 of the smoking stand. Suitable means are then provided for creating a downward draft of air through the passageway formed in body portion 5 which will not only suck all smoke downwardly and thereby prevent its mixing with the air of the room in which the smoking stand is located, but in addition will draw the ashes from the cigars and cigarettes into the body portion 5 which also serves as an ash receiver.

In the embodiment illustrated, this downward draft of air is produced by means of a small electric motor 12 which is mounted within body portion 5 in any desired manner, as by a pair of brackets 13, with its shaft 14 in a substantially vertical position, the upper end of said shaft having secured thereto a suitable suction fan or propeller 15 the blades of which are so formed as to create a sufficient downward flow of air to draw into casing 5 smoke and ashes from cigars and cigarettes held over the open top of the casing. Motor 12 is preferably of the induction type, without commutator or brushes, so as not to interfere with radio reception and to be practically noiseless in operation, the leads 16 thereto terminating in a suitable socket 17 which may be secured to and extend through the wall of body portion 5, as shown in Fig. 1, in position to receive the usual form of detachable electric plug 18 of an extension cord 19.

With this construction, the smoking stand can be readily transported from place to place and easily connected and disconnected to any electric outlet of the ordinary house wiring circuit. For convenience, the stand may also be provided with a suitable switch control for motor 12 so that the fan may be actuated at will without the necessity for connecting and disconnecting either electric plug 18 or the connection of extension cord 19 to the supply circuit. In the form shown, a switch 20 of any suitable construction is mounted on ledge 8 and connected to the motor by leads 21. If desired, leads 21 may be enclosed within a suitable conduit to avoid the possibility of becoming burned, or they may be carried up the outside of body portion 5. It will be understood that leads 16 may also be suitably protected against damage by burning.

The invention also includes the provision of suitable means for catching ashes, butts, match

sticks and the like which are either drawn down by the draft of air created by fan 15 or are intentionally dropped into the receiver, and for filtering the air which is drawn through the casing of the stand to remove therefrom the smoke and smell of the tobacco before it again returns to the atmosphere through the open bottom of the casing. For this purpose, an open top bag 22 of very finely meshed cloth, like that used for the dust bag of an ordinary vacuum cleaner, is suitably supported within body portion 5 in a position below motor 12. As shown, the periphery of the top of the bag is secured to a ring 23 of any desired construction, either rigid or flexible, which rests on and is supported by a suitable bracket 24 secured to the inner wall of body portion 5 of the stand. In order that bag 22 may be readily removed from the interior of the stand for emptying, body portion 5 is provided with a suitable door 25 which is large enough to permit withdrawal of the bag 22 therethrough. To expedite this removal, the bottom of door 25 preferably extends slightly below the plane of supporting bracket 24, and said bracket is cut away in front of the door, so that the ring 23 of bag 22 may be easily grasped and lifted off the bracket. It is also preferable that door 25 should extend upwardly to a point above fan 15 so that access may be had to the fan and motor for oiling, inspection and repair purposes.

By making bag 22 of finely meshed cloth it will serve to filter the smoke from the air as the latter passes therethrough, as well as to catch and retain ashes, etc. In order that the smell of the tobacco may also be removed from the air so as to prevent further fouling of the atmosphere of the room, a supply of deodorizing crystals 26 of any suitable composition may be placed in bag 22. There are already on the market several kinds of such crystals which will both deodorize and perfume the air as it passes through the bag.

It may also be desirable to treat bag 22 in known manner so as to render it fireproof should it be anticipated that the bag will serve as a receiver for lighted cigars and cigarettes, as well as for the ashes therefrom. On the other hand, should it be preferred to prevent the falling of butts, whether lighted or unlighted, match sticks and the like into bag 22, body portion 5 may be provided with a screen 27 of very finely meshed wire supported in a position above fan 15 either by a bracket similar to bracket 24 or simply by indentations or projections from the inner wall of body portion 5 like those indicated at 28 in Fig. 2. Screen 27 may be fitted with a suitable lifting ring 29 to facilitate its removal through the open top of body portion 5, while spilling of the material which is caught by screen 27 can be prevented during removal by providing the same with a suitable rim 30.

There is thus provided by the present invention a smoking stand of novel construction which, in addition to performing all of the functions of similar devices previously known to the art, also embodies new and unusual features which render the present construction a marked improvement over those hitherto known. The combination with the means for supporting lighted cigars and cigarettes which are temporarily laid down of the mechanism for creating a downward draft of air through the smoking stand and for filtering the air before it again reaches the atmosphere of the room not only prevents the smoke from mixing with and fouling the atmosphere but also automatically draws off and disposes of the ex-

cess ash as the cigars or cigarettes burn, thereby eliminating the necessity for continuous flicking off of the ashes and the attendant soiling of clothes, floor and table tops which results when the ashes are not properly disposed of. The supporting means of the smoking stand of the present invention also perform a valuable dual function in that they not only securely hold the cigars and cigarettes which are placed therein in such manner that they cannot be accidentally knocked off onto the floor, but also grip a cigarette with sufficient pressure to extinguish it when it burns down to the point of support. The provision of the bag which both acts as a receiver for the ashes and also filters the smoke and smell of the tobacco from the air as it is drawn through the stand is likewise a unique and important improvement over all smoking stands which have previously been available to the public. The construction of the present stand is relatively simple, it is economical to manufacture, and it can be quickly and easily cleaned after use. These features, together with the fact that it can be readily moved about and used in any desired location, clearly distinguish the present device as a smoking accessory of unusual advantages and the usefulness and a substantial contribution to the comfort and health of both smokers and non-smokers.

It will be readily appreciated that the invention is not limited to the particular construction illustrated in the drawing, but is capable of a variety of mechanical embodiments. For example, the body of the smoking stand may be given any desired shape other than the simple form illustrated, and the passageway therethrough may be varied accordingly, without in any way departing from the invention. Likewise, the size of the device is limited only by the space within which the constituent elements may be placed, it being entirely within the contemplation of the invention to make the stand in such sizes that it can be placed on a table or other support as well as on the floor. It is also to be understood that the draft creating means and the ash receiving filter bag may be used without the upper screen and in combination with any suitable form of cigar or cigarette holder other than the coiled spring embodiment illustrated. Various other changes, some of which have been referred to in the preceding description and others which will now become apparent to those skilled in the art, may be made in the form, details of construction and arrangement of the parts without departing from the spirit of the invention. Reference is therefore to be had to the appended claims for a definition of the limits of the invention.

What is claimed is:

1. A portable smoking stand comprising a body portion having an open top and a passageway therethrough communicating at the other end with the atmosphere of the room in which the stand is located, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said body portion, means for creating a draft of air through said passageway in a direction away from the open top, and means for removing ashes and smoke from the air drawn through said passageway before it again reaches the atmosphere of the room.

2. A portable smoking stand comprising a body portion open at both ends, means for supporting a cigar or cigarette with its lighted end adjacent the opening at one end of said body portion, means for creating a draft of air through said

body portion in a direction away from the end at which said supporting means is located, and means in said body portion for filtering ashes and smoke from the air drawn through the body portion.

3. A smoking stand comprising a body portion having an open top and a passageway therethrough communicating at the other end with the atmosphere, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said body portion, means for creating a draft of air through said passageway in a direction away from the open top, means adjacent the entrance to said passageway for catching and retaining any unburned material which may enter through said open top, said means being so constructed as to permit the passage therethrough of air, smoke and ashes, and means for removing smoke and ashes from the air drawn through said passageway before it again reaches the atmosphere.

4. A portable smoking stand comprising a body portion having an open top and a passageway therethrough communicating at the other end with the atmosphere of the room in which the stand is located, means mounted adjacent the open top of said body portion for yieldingly gripping a cigar or cigarette and supporting the same with its lighted end over the entrance to said passageway, means for creating a draft of air through said passageway in a direction away from the open top, and means in said passageway for removing ashes and smoke from the air drawn through said passageway before it again reaches the atmosphere of the room.

5. In a smoking stand, the combination with a body portion having a passageway therethrough communicating with the atmosphere at both ends of a fan housed within said body portion for creating a draft of air through said passageway, and a member extending across said passageway of such construction as to remove smoke and ashes from the air flowing therethrough.

6. In a smoking stand, the combination with a body portion having a passageway therethrough communicating with the atmosphere at both ends of a fan housed within said body portion for creating a draft of air through said passageway, and a member of finely meshed fabric extending across said passageway and adapted to receive and filter from the air flowing therethrough smoke and ashes carried thereby.

7. A smoking stand comprising a casing having an open top and a passageway therethrough communicating at the other end with the atmosphere, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said casing, a fan mounted within said casing so constructed and arranged as to create a draft through said passageway in a direction away from the open top, and a member of finely meshed fabric extending across said passageway and adapted to remove smoke and ashes from the air flowing therethrough.

8. A smoking stand comprising a casing having an open top and a passageway therethrough communicating at the other end with the atmosphere, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said casing, a fan mounted within said casing so constructed and arranged as to create a draft through said passageway in a direction away from the open top, a screen mounted in said passageway between the entrance thereto and said fan for catching and retaining any unburned material

which may enter through said open top, and a member of finely meshed fabric extending across said passageway in a position between said screen and the exhaust end of the passageway and adapted to remove smoke and ashes from the air flowing therethrough.

9. A smoking stand comprising a casing having an open top and a passageway therethrough communicating at the other end with the atmosphere, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said casing, a fan mounted within said casing so constructed and arranged as to create a draft through said passageway in a direction away from the open top, a member of finely meshed fabric extending across said passageway and adapted to remove smoke and ashes from the air flowing therethrough, and means carried by said fabric member for deodorizing the air as it passes there-
20 through.

10. A smoking stand comprising a casing having an open top and a passageway therethrough communicating at the other end with the atmosphere, a fan mounted within said casing so constructed and arranged as to create a draft through said passageway in a direction away from the open top, a member of finely meshed fabric extending across said passageway and adapted to remove smoke and ashes from the air flowing therethrough, and means for supporting a cigar or cigarette with its lighted end adjacent the open top of said casing including a pair of upwardly extending loops of coiled wire secured at their lower ends to said casing and having their adjacent vertical sides normally spaced apart by a distance less than the diameter of a cigarette.

11. In a smoking stand, the combination with a casing having an open top of means for supporting a cigar or cigarette with its lighted end adjacent said open top comprising a plurality of upwardly extending loops of resilient material formed from one continuous piece secured at their lower ends to said casing through a plurality of holes in said casing and having their adjacent vertical sides normally spaced apart by a distance less than the diameter of a cigarette.

12. In a smoking stand, the combination with a casing having an open top of means for supporting a cigarette with its lighted end adjacent said open top comprising a plurality of upwardly extending loops of resilient material formed from one continuous piece secured at their lower ends

to said casing through a plurality of holes in said casing and having their adjacent vertical sides normally spaced apart by a distance less than the diameter of a cigarette, the resiliency and spacing of said loops being such that a cigarette placed between two of them will be gripped thereby with a yielding pressure sufficient to extinguish the cigarette when it burns down to the point at which it is engaged by said loops.

13. A smoking stand comprising a substantially vertical casing open at both top and bottom, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said casing, a fan mounted within said casing so constructed and arranged as to create a draft of air therethrough in a downward direction, and a fabric bag supported within said casing and extending across the passageway therethrough, said bag being of such material as to permit the passage of air therethrough while preventing the passage of smoke and ash.

14. A smoking stand comprising a substantially vertical casing open at both top and bottom, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said casing, a fan mounted within said casing so constructed and arranged as to create a draft of air therethrough in a downward direction, a finely meshed screen mounted in said casing above said fan and adapted to catch and retain any butts, match sticks or the like which may enter said casing through the opening, and a fabric bag supported within said casing and extending across the passageway therethrough, said bag being of such material as to permit the passage of air therethrough while preventing the passage of smoke and ash.

15. A smoking stand comprising a substantially vertical casing open at both top and bottom, means for supporting a cigar or cigarette with its lighted end adjacent the open top of said casing, a fan mounted within said casing so constructed and arranged as to create a draft of air therethrough in a downward direction, a fabric bag supported within said casing and extending across the passageway therethrough, said bag being of such material as to permit the passage of air therethrough while preventing the passage of smoke and ash, and means carried by said bag for deodorizing the air as it passes therethrough.

ALVIS M. RAY.