(12) INNOVATION PATENT
(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2021100180 A4**

(54) Title
CIGARETTE HOLDER FILTER SPECIAL FOR SAVORING CIGARETTE

(51) International Patent Classification(s)
A24D 3/04 (2006.01) ***A24D 3/06*** (2006.01)
A24D 3/00 (2020.01) ***A24F 1/16*** (2006.01)
A24D 3/02 (2006.01) ***A24F 13/06*** (2006.01)

(21) Application No: **2021100180** (22) Date of Filing: **2021.01.13**

(30) Priority Data

(31) Number	(32) Date	(33) Country
2020112828193	**2020.11.17**	**CN**

(45) Publication Date: **2021.04.08**
(45) Publication Journal Date: **2021.04.08**
(45) Granted Journal Date: **2021.04.08**

(71) Applicant(s)
Zhangjiakou Cigarette Factory Co., Ltd

(72) Inventor(s)
Fan, Guangbin;Jiang, Guang;Ruan, Chunwei;Zhao, Haiting

(74) Agent / Attorney
Madderns Pty Ltd, GPO Box 2752, Adelaide, SA, 5001, AU

2021100180 13 Jan 2021

ABSTRACT

The present invention discloses a cigarette holder filter special for savoring a cigarette. A cigarette connection segment, a smoke mingling premixing segment, a smoke intensive mixing segment and a smoking segment which are sequentially arranged are comprised, wherein the cigarette connection segment is configured to allow different unblended cigarettes to be simultaneously inserted therein, the smoke mingling premixing segment is configured to premix smoke of the different unblended cigarettes, the smoke intensive mixing segment is configured to intensively mix the smoke of the different unblended cigarettes. According to the present invention, before the smoke of the different unblended cigarettes reaches a mouth cavity of a smoker, the smoke of the different unblended cigarettes may be intensively mixed when sequentially flowing through the premixing segment and the intensive mixing segment of the cigarette holder, thus the smoking effect is improved, and the requirements for high-standard smoking is met.

2021100180 13 Jan 2021

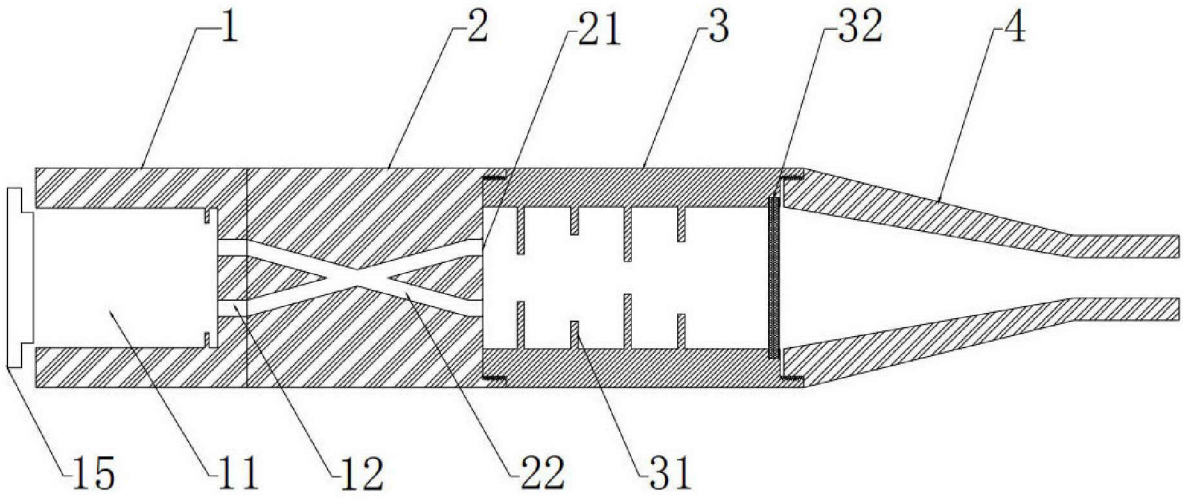

Fig. 1

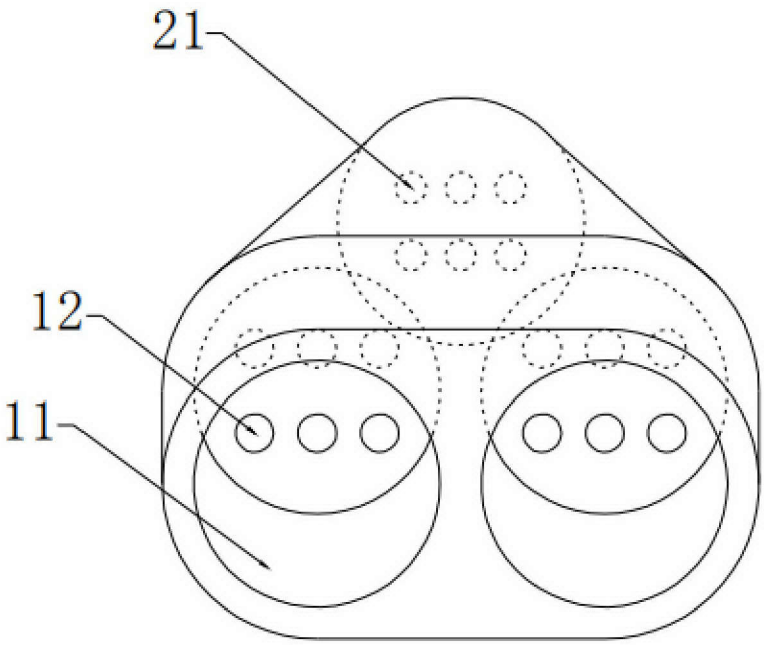

Fig. 2

CIGARETTE HOLDER FILTER SPECIAL FOR SAVORING CIGARETTE

FIELD OF TECHNOLOGY

[0001] The present invention relates to the field of cigarette smoking and savoring, in particular to a cigarette holder filter special for savoring a cigarette.

BACKGROUND

[0002] In the new era, the cigarette technology study develops in various types and forms, and derivatives of various novel cigarettes such as tea cigarettes and electronic cigarettes emerge in endlessly. During savoring (enjoying and commenting the full taste or flavour of cigarettes, may be by smoking slowly) and smoking of the tobacco technology study, particularly during savoring of an unblended cigarette, the situation of simultaneously smoking two cigarettes is frequent, and since the two cigarettes are smoked in one mouth, smoke of each unblended cigarette in a mouth cavity cannot be well mixed, thereby causing poor smoking effect.

[0003] That is, a savoring cigarette holder filter available on the market is only provided with an insertion port, so as to be incapable of meeting the requirements of the high-standard smoking of simultaneous smoking and intensive mixing of two or even more unblended cigarettes.

[0004] In addition, the existing savoring cigarette holder filters are mostly simple in structure, and single in specification, and the same cigarette holder cannot be used for smoking of all of a large-circumference cigarette, a medium-circumference cigarette and a slim cigarette in general. Although such design facilitates production, and the manufacturing cost is low, the smoking cigarette holder is relatively poor in universality, and cannot meet smoking of rolled cigarettes of various diameter specifications.

[0005] Therefore, it is necessary to research and develop a smoking cigarette holder with two or even more heads to meet the requirements of variety and high standards of professional smoking of the cigarette technology.

2021100180 13 Jan 2021

SUMMARY

[0006] The present application provides a cigarette holder filter special for savoring a cigarette. By arranging a smoke mingling premixing segment and a smoke intensive mixing segment, smoke of different unblended cigarettes is intensively mixed before entering a mouth cavity, so as to improve smoking taste and effect.

[0007] A technical solution used by the present invention for solving the technical problem is as below:

[0008] the cigarette holder filter special for savoring the cigarette includes a cigarette connection segment, a smoke mingling premixing segment, a smoke intensive mixing segment and a smoking segment which are sequentially arranged, wherein

[0009] the cigarette connection segment includes at least two cigarette insertion ports, wherein a front end of the cigarette insertion port is opened, a tail end thereof is provided with several smoke guide holes I, and the cigarette connection segment is in communication with the smoke mingling premixing segment through the smoke guide holes I;

[0010] a tail end of the smoke mingling premixing segment is provided with several smoke guide holes II;

[0011] the smoke guide holes I are in communication with the smoke guide holes II through several smoke guide pipes arranged in the smoke mingling premixing segment, wherein the smoke guide pipes are in crossed communication with one another in the smoke mingling premixing segment;

[0012] the smoke intensive mixing segment is in communication with the smoke mingling premixing segment through the smoke guide hole II, and an inner wall of the smoke intensive mixing segment is provided with several smoke baffle plates; and

[0013] The smoke intensive mixing segment is connected to the smoking segment through a detachable structure.

[0014] Further, the number of the smoke guide pipe is the same as that of the smoke guide hole I, and the number of the smoke guide hole II is less than or equal to that of the smoke guide hole I.

[0015] Preferably, the number of the smoke guide hole II accounts for 1/2 of that of the smoke guide hole I.

[0016] Further, the cigarette connection segment includes two cigarette insertion ports, wherein the front end of each cigarette insertion port is opened, and the tail end thereof is provided with N*M smoke guide holes I, that is, the smoke guide holes I in the tail end of each cigarette insertion port are arranged in N rows up and down at equal intervals and in M columns left and right at equal intervals, wherein N and M are both natural numbers ≥ 1; and however, an arranging manner of the smoke guide hole I in the tail end of each smoke insertion port is not only limited to the above matrix array, but can also be designed as other regular or irregular array types.

[0017] Further, the number of the smoke guide pipe is the same as that of the smoke guide hole I, and the number of the smoke guide hole II accounts for 1/2 of that of the smoke guide hole I;

[0018] the smoke guide pipe is obliquely arranged to achieve crossed and staggered communication between the smoke guide hole I and the smoke guide hole II; and

[0019] All the smoke guide pipes are in crossed and staggered communication to form several through points at junctions, and the smoke mingling premixing segment is internally provided with through cavities for communication of all the through points.

[0020] The crossed and staggered communication particularly means that one certain smoke guide hole I is in communication, through the obliquely arranged smoke guide pipe, with a smoke guide hole II which is not located on the same horizontal plane or the same vertical surface as the smoke guide hole I, such that the smoke guide pipes cross one another in the smoke mingling premixing segment.

[0021] The smoke guide pipe is obliquely arranged, and may be a through-type guide pipe, which is not limited thereto.

[0022] The smoke guide pipes obliquely cross one another in the smoke mingling premixing segment, such that it is inevitable that parts of smoke guide pipes are in crossed communication with one another in the smoke mingling premixing segment, which forms several through points capable of being used for premixing smoke of the different unblended cigarettes.

[0023] Since the number of the smoke guide hole II accounts for 1/2 of that of the smoke guide hole I, when one end of each smoke guide pipe is in communication with one

2021100180 13 Jan 2021

smoke guide hole I, the other ends of two smoke guide pipes are in communication with the same smoke guide hole II at the same time; and for improving the premixing effect of smoke, the two smoke guide pipes which are in communication with the same smoke guide hole II at the same time shall be in communication with smoke guide holes I of different cigarette insertion ports.

[0024] Further, the smoke insertion port is provided with an opening/closing control structure of the smoke guide hole I, so as to conveniently control connection/disconnection of the smoke guide hole I in communication with the smoke guide hole I; and the opening/closing control structure may be a detachable rubber plug arranged on the smoke guide hole I or a sealing end cover arranged at the opening of the front end of the cigarette insertion port.

[0025] Further, the smoke baffles are several baffle plates which protrude from the inner wall of the smoke intensive mixing segment, the baffle plates vary in height, the baffle plates of different heights block the smoke so as to slow down a flowing-through speed of the smoke, and make the smoke intensively mixed in the smoke intensive mixing segment, a height of the baffle plate is a height between an upper side and a lower side of a longitudinal section of the baffle plate, and the baffle plate may be an annular integrated baffle plate or a cambered split baffle.

[0026] Further, the smoke mingling premixing segment and the smoke intensive mixing segment are in an integral structure, or the smoke mingling premixing segment is connected to the smoke intensive mixing segment through the detachable structure.

[0027] Further, the smoking segment includes flat movable cigarette holders, and at least the two movable cigarette holders are arranged, so as to be regularly replaced conveniently.

[0028] Further, cigarette insertion pipes of three different inner diameter specifications are arranged in the opening of the front end of the cigarette insertion port, through which the cigarette insertion port may simultaneously meet smoking of unblended cigarettes of different specification diameters.

[0029] Further, the tail end of the smoke insertion port is provided with a limiting base on a front side of the smoke guide hole I, through which a cigarette may be spaced from

2021100180 13 Jan 2021

the smoke guide hole I after mounted in the cigarette insertion port, so as to expand a suction area and improve suction force.

[0030] Further, the several smoke guide pipes are in crossed communication to form several through points at the junctions, and the smoke mingling premixing segment is internally provided with through cavities for communication of all (part of) the through points, so as to further improve the mixing effect of the smoke of the different unblended cigarettes.

[0031] The present invention has the beneficial effects:

[0032] the cigarette holder filter special for savoring the cigarette is simple in structure, remarkable in effect, and capable of solving the problem that a single insertion port cigarette holder in the prior art cannot simultaneously meet the requirements of the high-standard smoking of intensive mixing of two or more different unblended cigarettes.

[0033] Through the product, before the smoke of the different unblended cigarettes reaches the mouth cavity of a smoker, the smoke of the different unblended cigarettes may be intensively mixed when sequentially flowing through the premixing segment and the intensive mixing segment of the cigarette holder, and positions for mixing of the smoke of the different unblended cigarettes are forward placed in various pipelines and cavities of the cigarette holder rather than in the mouth cavity in the prior art, such that the smoking effect may be improved, and the cigarette holder may meet the requirements of high-standard smoking.

[0034] In addition, the savoring cigarette holder filter may be used for savoring of cigarettes of three different specifications including a large-circumference cigarette, a medium-circumference cigarette and a slim cigarette, and with such design, universality and practicability of the smoking cigarette holder may be effectively improved, and one cigarette holder may meet the requirements of savoring-smoking of rolled cigarettes of the different diameter specifications.

[0035] The product also may be used as a cigarette holder filter for general smoking.

BRIEF DESCRIPTION OF THE DRAWINGS

[0036] Hereinafter, the present invention will be further described in conjunction with

accompanying drawings and particular embodiments

[0037] Fig. 1 is a schematic structural diagram of a section of a smoking cigarette holder in embodiment 1;

[0038] Fig. 2 is a schematic structural diagram for connecting a cigarette connection segment to a smoke mingling premixing segment in embodiment 1;

[0039] Fig. 3 is schematic diagram I of an optional communication manner for a smoke guide pipe in embodiment 1;

[0040] Fig. 4 is schematic diagram II of an optional communication manner for the smoke guide pipe in embodiment 1;

[0041] Fig. 5 is a schematic diagram of an optional communication manner for the smoke guide pipe in embodiment 4;

[0042] Fig. 6 is a schematic structural diagram of a smoke mingling premixing segment shown in embodiment 3; and

[0043] Fig. 7 is a schematic structural diagram of a smoke connection segment shown in embodiment 2.

[0044] Reference numbers in the figures:

[0045] 1. cigarette connection segment; 11. cigarette insertion port; 12. smoke guide hole I; 13. cigarette insertion pipe; 14. limiting base; 15. sealing end cover; 2. smoke mingling premixing segment; 21. smoke guide hole II; 22. smoke guide pipe; 23. through point; 24. through cavity; 3. smoke intensive mixing segment; 31. smoke baffle plate; 32. filtration material layer; and 4. smoking segment.

DESCRIPTION OF THE EMBODIMENTS

[0046] The technical solutions in embodiments of the present invention will be described below clearly and completely in conjunction with accompanying drawings in the embodiments of the present invention. Apparently, the embodiments described are merely some of, rather than all of, the embodiments of the present invention. Based on the embodiments of the present invention, all the other embodiments obtained by those of ordinary skill in the art without making creative efforts fall within the scope of protection of the present invention.

[0047] In the description of the present invention, it should be understood that the orientation or positional relationships indicated by the terms “above”, “below”, “front end”, “rear end”, “left”, “right” “inside”, “outside”, etc. are based on the orientation or positional relationship shown in the accompanying drawings and are merely for facilitating the description of the present invention and simplifying the description, rather than indicating or implying that a device or element referred to must have a particular orientation or be constructed and operated in a particular orientation, and therefore will not be interpreted as limiting the present invention.

[0048] In the present invention, unless otherwise explicitly specified and defined, the terms “arrangement”, “mounting”, “connecting”, “connection”, “communication”, etc. should be understood in a broad sense, for example, it may be a fixed connection or a detachable connection, may be a mechanical connection, and may be a direct connection, or an indirect connection via an intermediate medium. For those of ordinary skill in the art, the specific meaning of the above terms in the present invention could be understood according to specific circumstances.

[0049] **Embodiment 1**

[0050] With reference to Fig. 1, a cigarette holder filter for savoring a cigarette includes a cigarette connection segment 1, a smoke mingling premixing segment 2, a smoke intensive mixing segment 3 and a smoking segment 4 which are sequentially arranged, wherein the cigarette connection segment 1 is configured to allow different unblended cigarettes to be simultaneously inserted therein, the smoke mingling premixing segment 2 is configured to premix smoke of the different unblended cigarettes, the smoke intensive mixing segment 3 is configured to intensively mix the smoke of the different unblended cigarettes, and the smoking segment 4 is mainly configured to be smoked by a person.

[0051] Further,

[0052] with reference to Fig. 2, the cigarette connection segment 1 includes two cigarette insertion ports 11, the two cigarette insertion ports 11 are horizontally arranged side by side, a front end of the cigarette insertion port 11 is opened, and a tail end thereof is provided with six smoke guide holes I 12, and the cigarette connection segment is in communication with the smoke mingling premixing segment 2 through the smoke guide

holes I 12. The six smoke guide holes I 12 are arranged in a rectangular array (but not limited thereto), and are arranged in two rows up and down and in three columns left and right.

[0053] A tail end of the smoke mingling premixing segment 2 is provided with six smoke guide holes II 21, that is, the number of the smoke guide hole II 21 accounts for half of that of the smoke guide hole I 12. An array manner of the smoke guide hole II is the same as that of the smoke guide hole I 12 in the tail end of each cigarette insertion port 11. On such a basis, an appearance of the cigarette connection segment 1 is in a shape of two side-by-side cylinders, an appearance of the smoke mingling premixing segment 2 is a shape of an inverted cone (rather than a complete cone), and the smoke intensive mixing segment 3 is in a shape of a cylinder.

[0054] The smoke guide holes I 12 are in communication with the smoke guide holes II 21 through smoke guide pipes 22 arranged in the smoke mingling premixing segment 2, and the smoke guide pipes 22 are in crossed communication with one another in the smoke mingling premixing segment 2.

[0055] With reference to Figs. 3-4, two different communication manners for the smoke guide pipe 22 are illustrated. The crossed communication with one another may mean that any two smoke guide pipes 22 are in crossed communication with each other, or a plurality of smoke guide pipes 22 are in crossed communication with one another, which does not need to be unnecessarily limited.

[0056] The smoke intensive mixing segment 3 is in communication with the smoke mingling premixing segment 2 through the smoke guide hole II 21, and an inner wall of the smoke intensive mixing segment is provided with a smoke baffle plate 31 protruding from the inner wall to reduce a flowing-through speed of smoke and make the smoke intensively mixed in a cavity.

[0057] The smoke intensive mixing segment 3 is connected to the smoking segment 4 through a detachable structure, for example, a common threaded connection structure.

[0058] The smoking segment 4 includes an existing flat movable cigarette holder of 1.0 caliber, and two or more movable cigarette holders may be arranged, so as to be regularly replaced conveniently.

[0059] Further,

[0060] the number of the smoke guide pipe 22 is the same as that of the smoke guide hole I 12, so as to guide smoke flowing through each smoke guide hole I 12 into the smoke intensive mixing segment 3.

[0061] The smoke guide pipe 22 is obliquely arranged in the smoke mingling premixing segment 2, the smoke guide hole I 12 is in crossed and staggered communication with the smoke guide hole II 21 through the smoke guide pipe 22.

[0062] The crossed and staggered communication particularly means that one certain smoke guide hole I 12 is in communication, through the obliquely arranged smoke guide pipe 22, with a smoke guide hole II 21 which is not located on the same horizontal plane or the same vertical surface as the smoke guide hole I, such that the smoke guide pipes 22 cross one another in the smoke mingling premixing segment 2.

[0063] The smoke guide pipes 22 obliquely cross one another in the smoke mingling premixing segment 2, such that it is inevitable that parts of the smoke guide pipes 22 are in crossed communication with one another in the smoke mingling premixing segment 2, which forms a plurality of through points 23 capable of being used for premixing the smoke of the different unblended cigarettes.

[0064] The smoke guide pipe 22 may be a through-type guide pipe. The through point 23 may be formed naturally during the process of communication of the smoke guide hole I 12 and the smoke guide hole II 21 through the smoke guide pipe 22, or may be deliberately formed manually at a specified position, and in this case, the smoke guide pipe 22 is not limited to a structure of the through-type guide pipe and may be in a structure of a zigzag guide pipe alternatively.

[0065] Optionally, a pipe diameter of the smoke guide pipe 22 is 0.05-0.10 cm.

[0066] In this embodiment, since the number of the smoke guide hole II 21 accounts for 1/2 of that of the smoke guide hole I 12, and when one end of each smoke guide pipe 22 is in communication with one smoke guide hole I 12, the other ends of two smoke guide pipes 22 are in communication with the same smoke guide hole II 21 at the same time. For improving the premixing effect of smoke, the two smoke guide pipes 22 which are in communication with the same smoke guide hole II 21 at the same time shall be in communication with smoke guide holes I 12 of different cigarette insertion ports 11, as

shown in a communication structure of the smoke guide pipe 22 shown in Figs. 3-4.

[0067] The cigarette insertion port 11 may be provided with an opening/closing control structure of the smoke guide hole I 12, so as to conveniently control connection/disconnection of the smoke guide pipe 22 in communication with the smoke guide hole I 12. The opening/closing control structure may be a movable rubber plug arranged on the smoke guide hole I 12, which may be inserted into the smoke guide hole I 12 so as to close the same. Alternatively, the opening/closing control structure may be a sealing end cover 15 arranged at the opening of the front end of the cigarette insertion port 11, and the sealing end cover 15 may be mounted at the opening so as to close all the smoke guide holes I 12 of the cigarette insertion port 11.

[0068] The smoke baffle plates 31 are a plurality of baffle plates which protrude from the inner wall of the smoke intensive mixing segment 3, and the baffle plates vary in height. By arranging the plurality of baffle plates of different heights, a plurality of virtual blocking mixing cavities in communication may be formed, so as to block the smoke, slow down a flowing-through speed of the smoke, and make the smoke intensively mixed in each blocking mixing cavity.

[0069] A height of the baffle plate is a width between an upper-side baffle plate shown in a longitudinal section thereof and an inner wall of the mixing segment. The baffle plate may be an annular integrated baffle plate or part of the annular integrated baffle plate so as to form a cambered segmented baffle plate, and to be distributed on the inner wall of the smoke intensive mixing segment 3 in a front-back staggered manner.

[0070] In this embodiment, the smoke mingling premixing segment 2 and the smoke intensive mixing segment 3 may be in an integral structure, or may be connected through a detachable structure, such as an interference snap-fit connection structure.

[0071] **Embodiment 2**

[0072] In this embodiment, with reference to Fig. 7, cigarette insertion pipes 13 of three different inner diameter specifications are arranged in an opening of a front end of a cigarette insertion port 11, through which the cigarette insertion port 11 may simultaneously meet smoking of unblended cigarettes of different specification diameters such as a large-circumference cigarette, a medium-circumference cigarette and a slim cigarette.

[0073] A tail end of the smoke insertion port 11 is provided with a limiting base 14 on a front side of the smoke guide hole I 12, and the limiting base 14 protrudes from the inner wall of the cigarette insertion port 11, through which a cigarette may be spaced from the smoke guide hole I 12 after mounted in the cigarette insertion port 11, so as to expand a suction area, improve suction force, and avoid difficulty in suction during smoking.

[0074] Other structures of this embodiment are the same as those of embodiment 1 and a variant thereof.

[0075] **Embodiment 3**

[0076] In this embodiment, with reference to Fig. 6, a smoke mingling premixing segment 2 is further internally provided with through cavities 24, all through points 23 are in communication with one another through the through cavities 24, the through cavities 24 may not be limited to only one, the through cavity 24 may be considered as a premixing cavity, such that smoke of different unblended cigarettes enters the through cavity 24 through a smoke guide pipe 22, then is subjected to preliminary premixing in the through cavity 24, and then enter a smoke intensive mixing segment 3 through the smoke guide pipe 22 to be sequentially subjected to secondary multi-stage mixing by virtue of a plurality of blocking mixing cavities formed through baffle plates of the smoke intensive mixing segment, thereby further improving the mixing effect of the smoke of the different unblended cigarettes, and further improving a smoking grade and effect.

[0077] A tail end of the smoke intensive mixing segment 3 may be further provided with a filtration tank, the filtration tank being internally provided with a filtration material layer 32, which is made from the same material as a filter tip of a cigarette.

[0078] Other structures of this embodiment are the same as those of embodiment 1 and a variant thereof.

[0079] **Embodiment 4**

[0080] With reference to Fig. 1, a cigarette holder filter special for smoking a cigarette includes a cigarette connection segment 1, a smoke mingling premixing segment 2, a smoke intensive mixing segment 3 and a smoking segment 4 which are sequentially arranged.

[0081] The cigarette connection segment 1 includes two cigarette insertion ports 11,

wherein the two cigarette insertion ports 11 are horizontally arranged side by side, a front end of the cigarette insertion port 11 is opened, and a tail end thereof is provided with six smoke guide holes I 12, and the cigarette connection segment is in communication with the smoke mingling premixing segment 2 through the smoke guide holes I 12. The six smoke guide holes I 12 are arranged in a rectangular array manner, and are arranged in two rows up and down and in three columns left and right.

[0082] A tail end of the smoke mingling premixing segment 2 is provided with twelve smoke guide holes II 21, that is, the number of the smoke guide hole II 21 is the same as that of the smoke guide hole I 12, an arrangement manner of the smoke guide hole II 21 is the same as that of the smoke guide hole I 12 in the tail end of the cigarette insertion port 11, and the smoke guide holes II 21 are arranged in two rows up and down and in six columns left and right.

[0083] The smoke guide holes I 12 are in communication with the smoke guide holes II 21 through smoke guide pipes 22 arranged in the smoke mingling premixing segment 2, and the smoke guide pipes 22 are in crossed communication with one another in the smoke mingling premixing segment 2.

[0084] In this embodiment, a communication manner for the smoke guide pipe 22 is as below:

[0085] with reference to Fig. 5, the smoke guide holes I 12 in an upper row are in communication with the smoke guide holes II 21 in a lower row, and the smoke guide holes I 12 in three columns on the left are in corresponding communication with the smoke guide holes II 21 in three columns on the right.

[0086] In this communication manner, each smoke guide hole I 12 and each smoke guide hole II 21 correspond to one smoke guide pipe 22, and in the process of communication of each obliquely arranged smoke guide pipe 22, it is inevitable that parts of the smoke guide pipes 22 are in crossed communication with one another in the smoke mingling premixing segment 2, which forms a plurality of through points 23 capable of being used for premixing smoke of different unblended cigarettes, such that the smoke of the different unblended cigarettes is premixed before entering the smoke intensive mixing segment 3.

[0087] Other structures of this embodiment refer to the above embodiments.

2021100180 13 Jan 2021

[0088] It should be explained that

[0089] to prevent lines of the accompanying drawings from being in a mess, and clearly show a communication structure of the smoke guide pipe 22 in each embodiment of the present application, the smoke guide pipe 22 in partial accompanying drawings are indicated with a straight/dotted line for illustrating a communication direction and a formed crossed through structure thereof. Since the through points 23 formed by crossed communication with one another of the smoke guide pipes 22 are actually space formed through crossing of the pipes, and are indicated and illustrated with dots in partial accompanying drawings. The through cavity 24 for communication of each through point 23 is actually space with a certain volume, and is indicated and illustrated with closed line segments in partial accompanying drawings. Arrangement manners of the above structures should be understood by those skilled in the art, and the technical solutions based on the fore-mentioned embodiments of the present application shall implement the contents of the present invention.

[0090] What mentioned above is merely preferable embodiments of the present invention, and is not intended to limit the present invention. Although the present invention is described in details with reference to the fore-mentioned embodiments, for those skilled in the prior art, they can still modify the technical solutions described in the fore-mentioned embodiments, or equivalently replace partial technical features therein, and any amendment, equivalent replacement, improvement, etc. within the spirit and principles of the present invention shall be included in the scope of protection of the present invention.

[0091] It will be understood that the term “comprise” and any of its derivatives (eg comprises, comprising) as used in this specification is to be taken to be inclusive of features to which it refers, and is not meant to exclude the presence of any additional features unless otherwise stated or implied.

[0092] The reference to any prior art in this specification is not, and should not be taken as, an acknowledgement or any form of suggestion that such prior art forms part of the common general knowledge.

WHAT IS CLAIMED IS:

1. A cigarette holder filter special for savoring a cigarette, comprising a cigarette connection segment, a smoke mingling premixing segment, a smoke intensive mixing segment and a smoking segment which are sequentially arranged, wherein

the cigarette connection segment comprises at least two cigarette insertion ports, wherein a front end of the cigarette insertion port is opened, a tail end thereof is provided with several smoke guide holes I, and the cigarette connection segment is in communication with the smoke mingling premixing segment through the smoke guide holes I;

the smoke mingling premixing segment is provided with at a tail end several smoke guide holes II;

the smoke guide holes I are in communication with the smoke guide holes II through several smoke guide pipes arranged in the smoke mingling premixing segment, wherein the smoke guide pipes are in crossed communication with one another in the smoke mingling premixing segment;

the smoke intensive mixing segment is in communication with the smoke mingling premixing segment through the smoke guide hole II, and an inner wall of the smoke intensive mixing segment is provided with several smoke baffles; and

the smoke intensive mixing segment is connected to the smoking segment through a detachable structure.

2. The cigarette holder filter special for savoring the cigarette according to claim 1, wherein the number of the smoke guide pipe is the same as that of the smoke guide hole I, and the number of the smoke guide hole II is less than or equal to that of the smoke guide hole I.

3. The cigarette holder filter special for savoring the cigarette according to claim 2, wherein the cigarette connection segment comprises two cigarette insertion ports, wherein the front end of each cigarette insertion port is opened, the tail end thereof is provided with N*M smoke guide holes I, that is, the smoke guide holes I in the tail end of each cigarette insertion port are arranged in N rows up and down at equal intervals and in M columns left and right at equal intervals, wherein N and M are both natural numbers ≥ 1.

4. The cigarette holder filter special for savoring the cigarette according to claim 3, wherein the number of the smoke guide pipe is the same as that of the smoke guide hole I, and the number of the smoke guide hole II accounts for 1/2 of that of the smoke guide hole I;

the smoke guide pipe is obliquely arranged to achieve crossed and staggered

communication between the smoke guide hole I and the smoke guide hole II; and

all the smoke guide pipes are in crossed and staggered communication to form several through points at junctions, and the smoke mingling premixing segment is internally provided with through cavities for communication of all the through points.

5. The cigarette holder filter special for savoring the cigarette according to claim 1 or 4, wherein the smoke insertion port is provided with an opening/closing control structure of the smoke guide hole I.

6. The cigarette holder filter special for savoring the cigarette according to claim 1, wherein the smoke baffles are several baffle plates which protrude from the inner wall of the smoke intensive mixing segment, and the baffle plates vary in height.

7. The cigarette holder filter special for savoring the cigarette according to claim 1, wherein the smoke mingling premixing segment and the smoke intensive mixing segment are in an integral structure, or the smoke mingling premixing segment is connected to the smoke intensive mixing segment through the detachable structure.

8. The cigarette holder filter special for savoring the cigarette according to claim 1, wherein the smoking segment comprises flat movable cigarette holders, and at least the two movable cigarette holders are arranged.

9. The cigarette holder filter special for savoring the cigarette according to claim 1, wherein the tail end of the smoke insertion port is provided with a limiting base on a front side of the smoke guide hole I.

10. The cigarette holder filter special for savoring the cigarette according to claim 1, wherein the several smoke guide pipes are in crossed communication to form several through points at junctions, and the smoke mingling premixing segment is internally provided with through cavities for communication of all the through points.

2021100180 13 Jan 2021

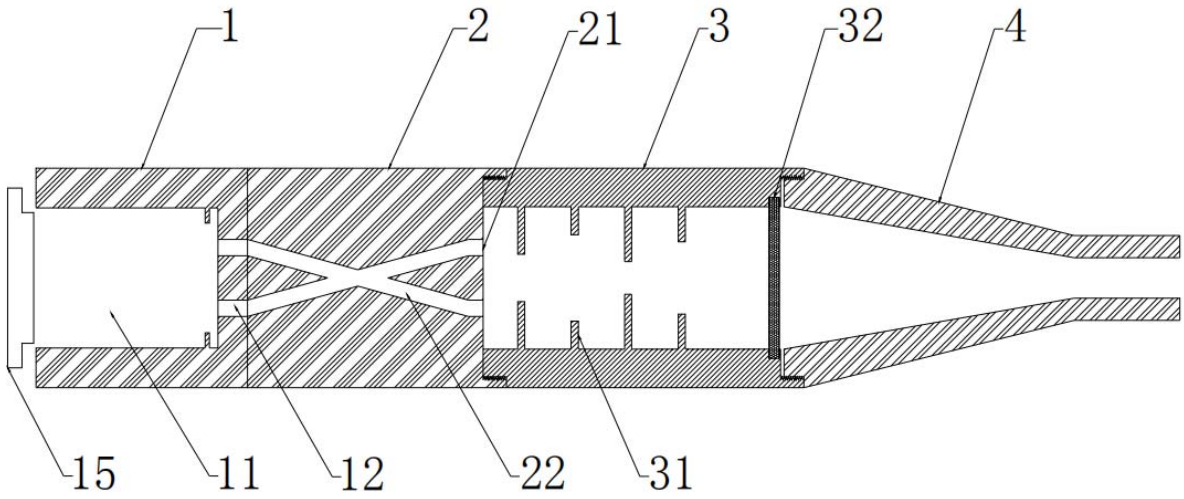

Fig. 1

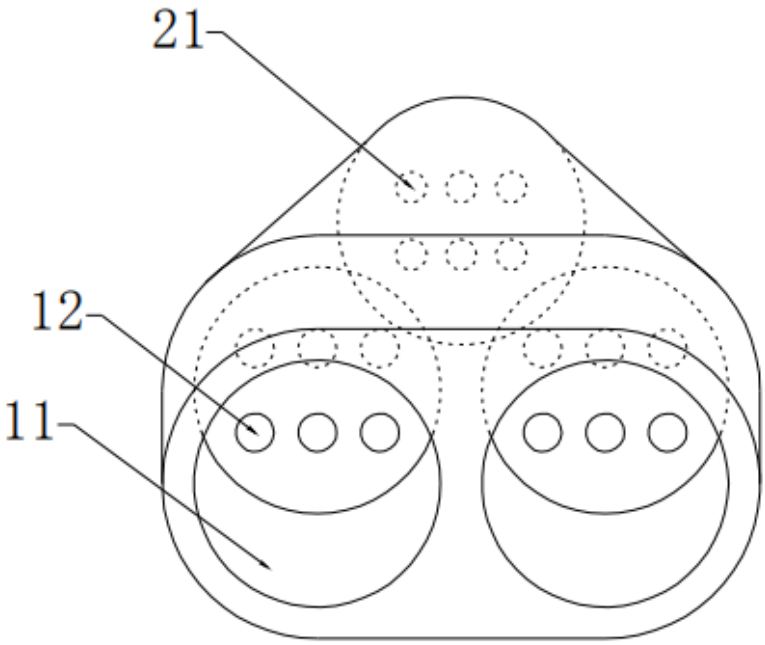

Fig. 2

2021100180 13 Jan 2021

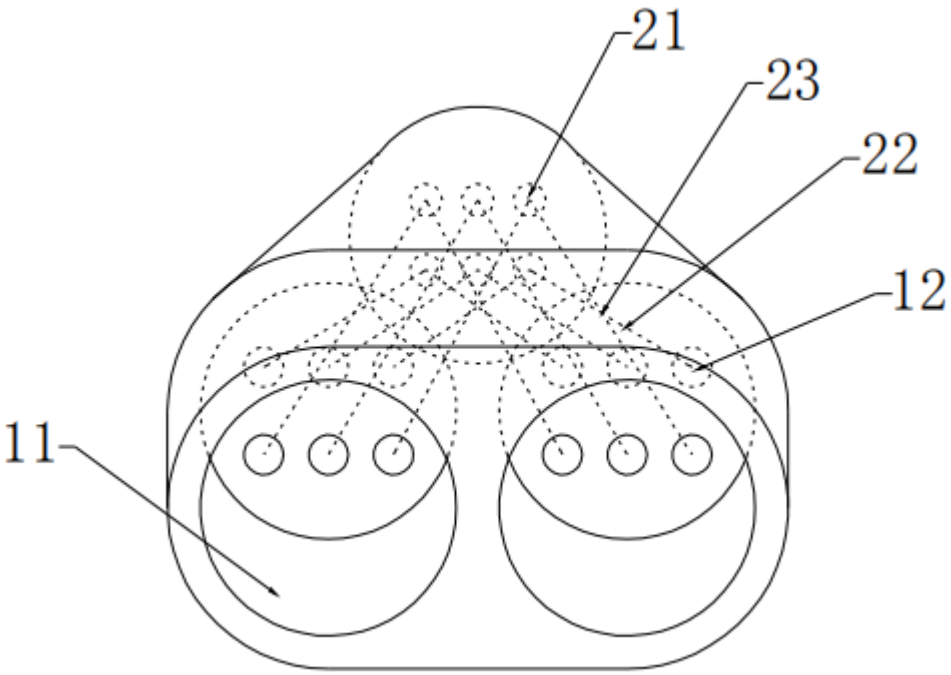

Fig. 3

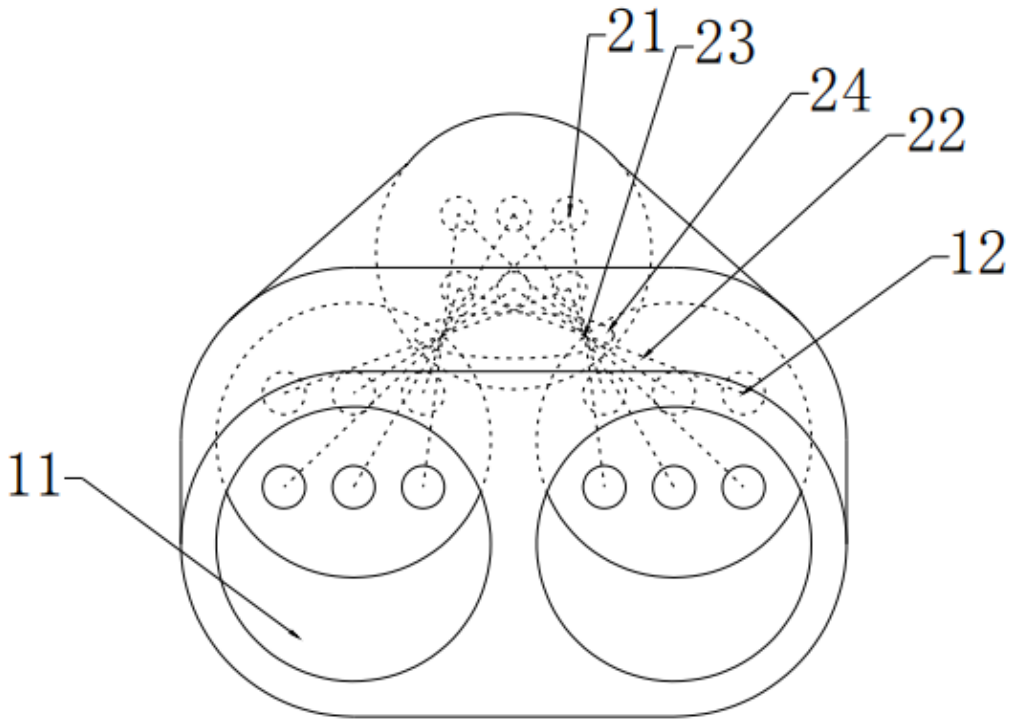

Fig. 4

2021100180 13 Jan 2021

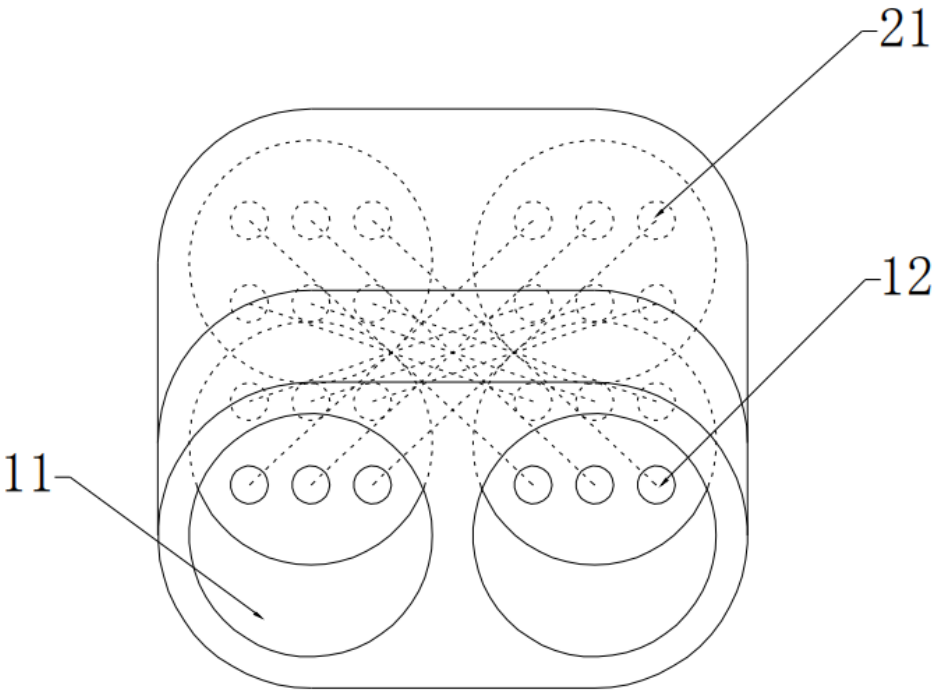

Fig. 5

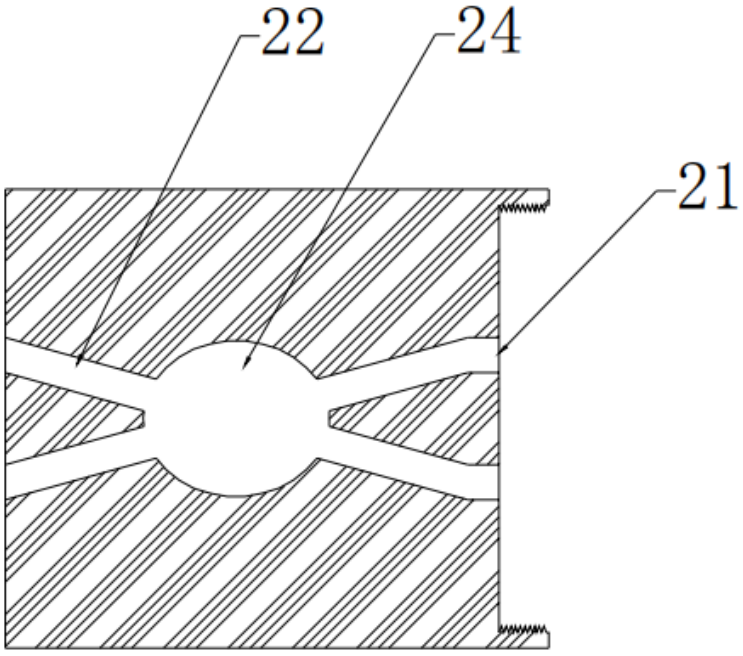

Fig. 6

2021100180 13 Jan 2021

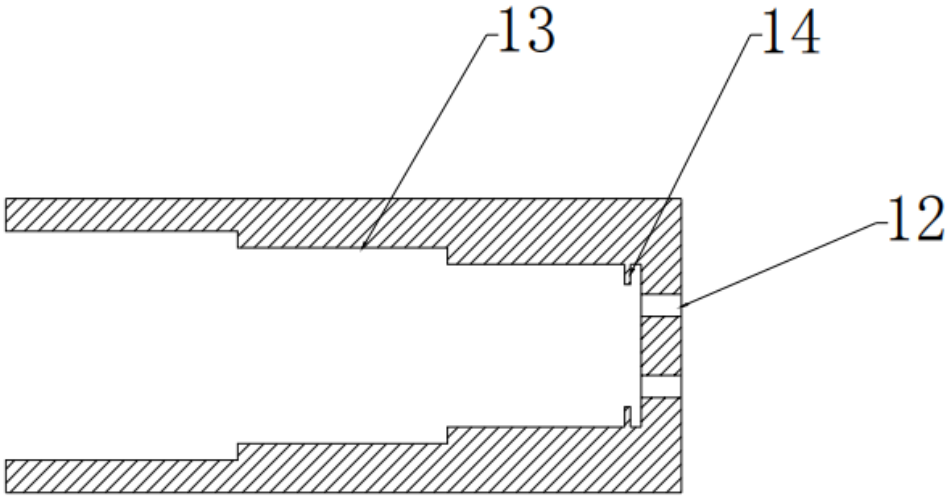

Fig. 7