(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 3 002 514 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
06.04.2016 Bulletin 2016/14

(51) Int Cl.:
F23D 14/06 *(2006.01)* ***F23D 14/08*** *(2006.01)*

(21) Application number: **15188244.6**

(22) Date of filing: **02.10.2015**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA

(30) Priority: **03.10.2014 BR 102014024744**

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(54) GAS BURNER ASSEMBLY

(57) The present invention relates to the technological field of gas burners to firing equipment.

Problem to be solved: The current prior art comprises gas burner assemblies free of clamping means between its multiple components, and this feature impairs its transport and assembling.

Problem resolution: It is described a gas burner assembly composed by two bodies capable of detachable cooperative association with each other, being one of the bodies possible of assume two stable positions, in which, when cooperating with each other, define an engaging position between said bodies and a disengagement position between said bodies. The alteration of this positions is made by an external force applied to at least one among the at least two regions possible of deformation existing on the body capable of assuming two stable positions.

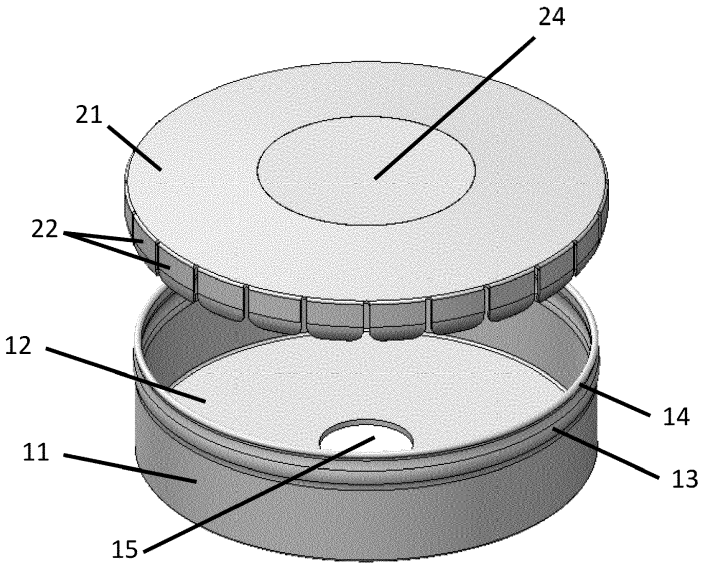

FIG. 2

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Description

Field of the Invention

[0001] The current invention refers to a gas burner assembly, usually used in firing equipment based on gas burn, integrated by at least two bodies which, cooperate with each other, define a locking mechanism. Specifically, the current invention reveals an integrated gas burner assembly, preferably, simply by a base and a lid, in which said lid comprises an odd construction capable of compose a locking mechanism related to the base.

Background of the Invention

[0002] As is it broadly known, conventional firing equipment are basically built by firing tables in which are disposed burner assemblies by which flame is outputted that effectively promotes the desired firing process, in that said burners normally comprises a main body of base and a lid that, in a general way, helps on forming gantries for passage of an air-fuel mixture, whose intensity can be defined by the own equipment operator actuating the control handles of register, between a range determined by the burner project.

[0003] However said burner lids normally comprises pieces in form of plates or lids that are simply supported on the body of the burners without, however, foresee any type of fixing means to keep them permanently on the correct position during the utilization of the firing apparatus. Thus, despite the current marked be provided with several configurations of lids that can have their own support conditions plus male-female engaging, coupling with internal accommodation or similar forms, the same always keep free on the main body of the burners.

[0004] Therefore, a problem refers to transport logistics of the gas burners assemblies. This because during transport, normally by the highways, there is a need to keep the gas burner assemblies assembled so the pieces will not be damaged or misplaced. To avoid such problem, the current prior art comprises some specific techniques, which foresee, normally, using extra components, as for example, adhesive tapes, disposable templates, among others.

[0005] Another problem known by the specialists on the art refers to the assembling of the gas burner assemblies. This is because is indispensable that the lid and base, among other eventual components, should be mounted in perfectly harmony, at the risk of malfunctioning and failure to maintain the flame, after all, the incorrect assembling of this elements can unbalance the exit speed of the mixture by gantries, promoting known problems as "flame detachment" (the flame "detaches" from the burner, being, in extreme cases, extinct, generating thus gas not burned leakage), or "gathering flame" (the flame burns inside the burner body causing superheating of the piece and consequently damage due to piece softening or melting, making it useless permanently in the worst cases).

[0006] One solution that was developed trying to minimize such problem is found on document KR2004059675, that foresee using an over lid for the burner lid, which fix to itself with the aid of a connector that cooperates with the structure that can be the own tripod of the firing equipment. Thus, there are used several devices to avoid lid displacement related to the main body of the burner without, however, foresee any fixing means, effective and directly, the lid to the burner body revealing, however, a complex and costly solution.

[0007] Document JP200308512, in turn, describes a solution in which the burner body provides support elements similar to hooks intended to be coupled to the cover thereby to immobilize and simultaneously prevent access of liquids to the internal region of the firing apparatus. Despite having a primary purpose of sealing, this solution also prevents free travel of the lid, but also with a complex solution that relies on many small components for its execution, besides demanding a constructive complex process and assembly conditions and disassembly also extremely complex - including the cleaning procedures and maintenance of firing equipment.

[0008] Note, therefore, that the present state of the art lacks solutions to keep the burners lid of firing equipment fixedly coupled to its support structure so as to avoid unwanted movements and, moreover, allow safe use of firing equipment in locations subject to rocking and / or vibration, for example, trailers and watercraft. Therefore, it is necessary to develop solutions to secure the lids to the bodies of firing equipment burners in a direct, practical and effective, moreover, not demands the handling of various components for their assembly and can be mounted and disassembled simply to facilitate cleaning procedures that are often needed in this type of appliance.

[0009] Based on this scenario the invention in question arises.

Objects of the Invention

[0010] It is therefore one objective of the subject invention that the gas burner assembly is provided with a locking mechanism capable of ensure that the base and lid remain assembled without the need for additional components for any kind of transportation.

[0011] Another among the objectives of the invention is to disclose a lid for firing equipment burner that includes, in its very structure, the means to promote attachment to the burner body and simultaneously originate the gantries for output flames.

[0012] It is also an object of the invention to provide a burner assembly which enables safe use of firing equipment in places subject to vibration and / or motion as, for example, in trucks, and watercraft.

[0013] In summary, it is an object of the present invention to provide a burner assembly for a firing equipment providing greater security for the use and handling of

firing equipment, especially for facilitating the assembly process and disassembly requires the lid on the body of the burner for cleaning and prevent unwanted displacement of the covers burners while using the equipment or during transport.

Summary of the Invention

[0014] All the aims of the subject invention are achieved by the gas burner assembly herein disclosed, which comprises at least two bodies capable of detachably cooperative association with each other and a locking means defined by the cooperative interaction between said two bodies.

[0015] According to the subject invention, the "first" body comprises a surrounding wall closed at one end by a plate and said surrounding wall comprises at least one rib and / or at least one groove. The "first" body further comprises at least one opening of the inlet of fuel gas or air and fuel mixture.

[0016] Also in accordance with the subject invention, the "second" body comprises a plate from which protrude at an angle of 60° to 120° at least two spaced walls adjoin each other, wherein each of said adjacent walls comprising a final end facing toward the center of the board. The "second" body further comprises at least two regions liable to deformation upon the application of external force.

[0017] Accordingly, said "second" body is able to assume two stable positions, which, when cooperating with the "first" body defining an engaging position between said bodies and a disengagement position between said bodies. The change from the positions of the "second" body is performed by external force applied to at least one of the at least two regions liable to deformation. One of the regions subject to deformation comprises the central plate "second" body. Another subject of the forming region comprises at least one of the at least two adjacent walls spaced from each other.

[0018] In addition, the gas burner assembly now revealed further comprises least one gantry, which can be arranged in the "first" body, "second" body, or between the "first" body and the "second" body.

[0019] According to the subject invention, the "first" body may comprise both the base and the lid of the burner assembly, the same being observed with regard to "second" body

Brief Description of the drawings

[0020] The present invention will be detailed in detail based on the figures listed below, including:

Figure 1 illustrates in perspective a preferred embodiment of the gas burner assembly, according to the subject invention;
Figure 2 illustrates in exploded perspective the preferred embodiment of the gas burner assembly, according to the subject invention;
Figure 3 illustrates a perspective view of the gas burner assembly cover, according with preferred embodiment of the subject invention;
Figure 4 shows, in front view, the gas burner assembly lid, according to the preferred embodiment of the subject invention;
Figure 5 illustrates a perspective view of the base of the gas burner assembly, according with preferred embodiment of the subject invention;
Figure 6 illustrates a front view of the base of the gas burner assembly, according with preferred embodiment of the subject invention; and

[0021] The Figures 7.1 and 7.2 illustrate, schematically, the gas burner assembly lid, according to the preferred embodiment of the invention in question, in its two stable positions.

Detailed Description of the Invention

[0022] The present invention relates to a burner assembly for firing equipment, generally comprises at least two bodies capable of detachably cooperative association with each other, and laid still a locking means defined by the cooperative interaction between said two bodies.

[0023] Due to this constructive concept, all of the goals of the subject invention are achieved, comprising a preferred embodiment illustrated in Figures 1 to 6.

[0024] According to these figures, it is noted that the gas burner assembly is essentially formed by two bodies, which are indicated by reference numerals 1 and 2.

[0025] According to the preferred embodiment illustrated in figures 1 to 6, the body 1 comprises a burner assembly base and the body 2 comprises the lid of the burner assembly. Of course, this condition is not exhaustive and may even be reversed.

[0026] The body 1 comprises a surrounding wall 11 closed at one end by a plate 12, which comprises conventional means (not shown) for fastening on a firing table and a an opening intake 15 of fuel gas and air and fuel mixture coming from any source. The surrounding wall 11 of said body 1 further comprises at least one rib 13 and / or at least one groove 14, preferably surrounding both.

[0027] The body 2 comprises a plate 21 which perpendicularly project multiple adjacent walls 22, which are spaced from each other by slits 26 (vertical spaces). At the most, each of said adjacent end walls 22 has an end 23 directed toward the center of the plate 21.

[0028] Moreover, said body 2 further comprises two regions capable of deformation by the application of external force, one of these regions (indicated by reference 24) comprises a central plate 21, and the other of these regions (indicated by reference 25) comprises its own adjacent walls 22 spaced apart.

[0029] Due to the existence of two regions 24 and 25 capable of deforming by the application of external force, the body 2 is able to assume two stable positions, which

are best shown in Figures 7.1 and 7.2.

[0030] In Figure 7.1, the body 2 is in a position of "disengagement", which is achieved through the application of an external force F1 in the region 24 subject to deformation (central plate 21) from the body 2 . In Figure 7.2, the body 2 is in a "locking" position, which is achieved through the application of an external force F2 in the region 25 subject to deformation (own adjacent walls 22) of the body 2.

[0031] In summary, the major difference between the position of "disengaging" and "engaging" refers to the virtual diameter defined by end edges 23 of adjacent walls 22. In the position "disengaging" the diameter is slightly larger than the diameter of the plate 21, while the position of "engaging" the diameter is slightly larger than the diameter of the plate 21. This allows the body 2, by assuming two stable positions among them and cooperating when the body 1, performs as a latch means, after all, one of the stable positions culminates in the groove between said bodies 1 and 2, while the other stable position culminates in the disengagement between said bodies 1 and 2.

[0032] Thus, the mere application of an external force (F1 or F2) in the body 2 proper region (regions 24 and 25 capable of deformation) provides the engagement or disengagement between the bodies 1 and 2 which define the burner assembly gas now revealed.

[0033] Occasionally, it is noted that the application of an external force F1 in the region 24 capable of body 2 deforming results in the disengagement position between said bodies 1 and 2 and the application of an external force F2 in the region 25 capable of deformation body 2 results in locking position between said bodies 1 and 2.

[0034] The aforementioned end points 23 of adjacent walls 22 are specifically dedicated to the cooperative action with the rib 13 and / or groove 14 of the surrounding wall 11, so that the engaging position between said bodies 1 and 2, the ends 23 of the adjacent end walls 22 are housed in the groove 14 of the surrounding wall 11, preventing relative movement of existing (axial and / or longitudinal) between said bodies 1 and 2.

[0035] Of course, the gas burner assembly disclosed herein comprises three gantries.

[0036] According to the embodiment illustrated in figures 1 to 6, the said gantries 3 are arranged in the body 2 and, more specifically, two slits 26 of the body.

[0037] Alternatively (not shown), the said gantries 3 may be arranged in other areas of the body 2, the body 1 (preferably, the surrounding wall 11), or between the body 1 and the body 2.

[0038] Finally, it is worth noting that although it was only cited one preferred embodiment, the scope of the invention in question is broader, being limited solely by the claims and possible equivalent means.

EMBODIMENTS

[0039]

1. Gas burner assembly, comprising at least two bodies (1 and 2) capable of detachable cooperative association with each other; said gas burner assembly being specially comprising:

   a locking mean defined by cooperating interaction among said two bodies (1 and 2);
   the body (1) comprising a surrounding wall (11) closed in one of its ends by a plate (12); said surrounding wall (11) comprises at least one rib (13), said body (1) comprises also at least one inlet opening (15) of fuel gas or air and fuel mixture;
   the body (2) comprising a plate (21) from which protrude, at an angle of 60° to 120°, at least two adjacent walls (22) spaced apart, each of said adjacent walls (22) comprises a final end (23) directed toward the plate center (21); the body (2) further comprising at least two regions (24 and 25) capable of deforming upon external force application;
   the body (2) is capable of assuming two stable positions, in which, when cooperating with the body (1), define an engaging position between said bodies (1 and 2) and a disengagement position between said bodies (1 and 2); and
   the alteration among the body positions (2) is done by means of external force applied to at least one among the at least two regions (24 and 25) possible of deformation.

2. Gas burner assembly, according to embodiment 1, wherein the region (24) capable of deforming the body (2) comprises the central region of the plate (21).

3. Gas burner assembly, according to embodiment 1, wherein the region (25) capable of deforming the body (2) comprises at least one of the two adjacent walls (22) spaced apart.

4. Gas burner assembly, according to embodiments 2 and 3, wherein applying an external force (F1) on region (24) capable of deforming the body (2) results in disengagement position between said bodies (1 and 2).

5. Gas burner assembly, according to embodiments 2 and 3, wherein applying an external force (F2) on region (25) capable of deforming the body (2) results in engaging position between said bodies (1 and 2).

6. Gas burner assembly, according to embodiment 1, wherein further comprises least one gantry (3).

7. Gas burner assembly, according to embodiment 6, wherein at least one gantry (3) is disposed on the body (1).

8. Gas burner assembly, according to embodiment

6, wherein at least one gantry (3) is disposed on body (2).

9. Gas burner assembly, according to embodiment 6, wherein the at least one gantry (3) is disposed between the body (1) and the body (2).

10. Gas burner assembly, according to embodiment 1, wherein the body (1) comprises a burner assembly base and the body (2) comprises the burner assembly lid.

11. Gas burner assembly, according to embodiment 1, wherein the body (1) comprises the burner assembly lid and the body (2) comprises the burner assembly base.

12. Gas burner assembly, comprising at least two bodies (1 and 2) capable of detachable cooperating association with each other, said gas burner assembly specially comprising:

a locking means defined by cooperating interaction between said two bodies (1 and 2);
the body (1) comprising a surrounding wall (11) closed in one of its ends by a plate (12); said surrounding wall (11) comprising at least one groove (14), said body (1) comprising also at least one inlet opening (15) of fuel gas or air and fuel mixture;
the body (2) comprising a plate (21) from which protrude, at an angle of 60° to 120°, at least two adjacent walls (22) spaced apart, each of said adjacent walls (22) comprises a final end (23) directed toward the plate center (21); the body (2) further comprising at least two regions (24 and 25) capable of deforming through the application of external force;
the body (2) is capable of assuming two stable positions, in which, when cooperating with a body (1), define and engaging position between said bodies (1 and 2) and a disengagement position between said bodies (1 and 2); and
the alteration among the body (2) positions is made by external force applied to at least one among the at least two regions (24 and 25) capable of deforming.

13. Gas burner assembly, according to embodiment 12, wherein the region (24) capable of deforming the body (2) comprises the central region of the plate (21).

14. Gas burner assembly, according to embodiment 12, wherein the region (25) capable of deforming the body (2) comprises at least one of at least two adjacent walls (22) spaced apart.

15. Gas burner assembly, according to embodiments 13 and 14, wherein applying an external force (F1) on region (24) capable of deforming the body (2) results in disengagement position between said bodies (1 and 2).

16. Gas burner assembly, according to embodiments 13 and 15, wherein applying an external force (F2) on region (25) capable of deforming the body (2) results in engaging position between said bodies (1 and 2).

17. Gas burner assembly, according to embodiment 12, wherein comprises least one gantry (3).

18. Gas burner assembly, according to embodiment 17, wherein at least one gantry (3) is disposed on the body (1).

19. Gas burner assembly, according to embodiment 17, wherein at least one gantry (3) is disposed on the body (2).

20. Gas burner assembly, according to embodiment 17, wherein at least one gantry (3) is disposed between body (1) and body (2).

21. Gas burner assembly, according to embodiment 12, wherein the body (1) comprises the burner assembly base and the body (2) comprises the burner assembly lid.

22. Gas burner assembly, according to embodiment 12, wherein the body (1) comprises the burner assembly lid and the body (2) comprises the burner assembly base.

23. Gas burner assembly, comprising at least two bodies (1 and 2) capable of detachable cooperating association with each other, said gas burner assembly specially comprising:

a locking means defined by cooperating interaction between said two bodies (1 and 2);
the body (1) comprising a surrounding wall (11) closed in one of its ends by a plate (12); said surrounding wall (11) comprising at least one rib (13) and at least one groove (14), said body (1) comprising also at least one inlet opening (15) of fuel gas or air and fuel mixture;
the body (2) comprising a plate (21) from which protrude, at an angle of 60° to 120°, at least two adjacent walls (22) spaced apart, each of said adjacent walls (22) comprising a final end (23) directed toward the plate center (21); the body (2) further comprising at least two regions (24 and 25) capable of deforming through the application of external force;
the body (2) is capable of assuming two stable positions, in which, when cooperating with a body (1), define and engaging position between said bodies (1 and 2) and a disengagement position between said bodies (1 and 2); and
the alteration among the body (2) positions is made by external force applied to at least one among the at least two regions (24 and 25) capable of deforming.

24. Gas burner assembly, according to embodiment 23, wherein the region (24) capable of deforming the body (2) comprises the central region of the plate (21).

25. Gas burner assembly, according to embodiment 23, wherein the region (25) capable of deforming the body (2) comprises at least one of the at least two adjacent walls (22) spaced apart.
26. Gas burner assembly, according to embodiments 24 and 25, wherein applying an external force (F1) on region (24) capable of deforming the body (2) results in disengagement position between said bodies (1 and 2).
27. Gas burner assembly, according to embodiments 24 and 25, wherein applying an external force (F2) on region (25) capable of deforming the body (2) results in engaging position between said bodies (1 and 2).
28. Gas burner assembly, according to embodiment 23, wherein further comprises least a gantry (3).
29. Gas burner assembly, according to embodiment 28, wherein at least one gantry (3) is disposed on the body (1).
30. Gas burner assembly, according to embodiment 28, wherein at least one gantry (3) is disposed on the body (2).
31. Gas burner assembly, according to embodiment 28, wherein at least one gantry (3) is disposed between body (1) and body (2).
32. Gas burner assembly, according to embodiment 23, wherein the body (1) comprises the burner assembly base and the body (2) comprises the burner assembly lid.
33. Gas burner assembly, according to embodiment 23, wherein the body (1) comprises the burner assembly lid and the body (2) comprises the burner assembly base.

Claims

1. Gas burner assembly, comprising at least two bodies (1 and 2) capable of detachable cooperative association with each other; said gas burner assembly being specially comprising:

a locking mean defined by cooperating interaction among said two bodies (1 and 2);
the body (1) comprising a surrounding wall (11) closed in one of its ends by a plate (12); said surrounding wall (11) comprises at least one rib (13), said body (1) comprises also at least one inlet opening (15) of fuel gas or air and fuel mixture;
the body (2) comprising a plate (21) from which protrude, at an angle of 60° to 120°, at least two adjacent walls (22) spaced apart, each of said adjacent walls (22) comprises a final end (23) directed toward the plate center (21); the body (2) further comprising at least two regions (24 and 25) capable of deforming upon external force application;
the body (2) is capable of assuming two stable positions, in which, when cooperating with the body (1), define an engaging position between said bodies (1 and 2) and a disengagement position between said bodies (1 and 2); and
the alteration among the body positions (2) is done by means of external force applied to at least one among the at least two regions (24 and 25) possible of deformation.

2. Gas burner assembly, according to claim 1, wherein the region (24) capable of deforming the body (2) comprises the central region of the plate (21).

3. Gas burner assembly, according to claim 1, wherein the region (25) capable of deforming the body (2) comprises at least one of the two adjacent walls (22) spaced apart.

4. Gas burner assembly, according to claims 2 and 3, wherein applying an external force (F1) on region (24) capable of deforming the body (2) results in disengagement position between said bodies (1 and 2).

5. Gas burner assembly, according to claims 2 and 3, wherein applying an external force (F2) on region (25) capable of deforming the body (2) results in engaging position between said bodies (1 and 2).

6. Gas burner assembly, according to claim 1, wherein further comprises least one gantry (3).

7. Gas burner assembly, according to claim 6, wherein at least one gantry (3) is disposed on the body (1).

8. Gas burner assembly, according to claim 6, wherein at least one gantry (3) is disposed on body (2).

9. Gas burner assembly, according to claim 6, wherein the at least one gantry (3) is disposed between the body (1) and the body (2).

10. Gas burner assembly, according to claim 1, wherein the body (1) comprises a burner assembly base and the body (2) comprises the burner assembly lid.

11. Gas burner assembly, according to claim 1, wherein the body (1) comprises the burner assembly lid and the body (2) comprises the burner assembly base.

12. Gas burner assembly, comprising at least two bodies (1 and 2) capable of detachable cooperating association with each other, said gas burner assembly specially comprising:

a locking means defined by cooperating interaction between said two bodies (1 and 2);
the body (1) comprising a surrounding wall (11)

closed in one of its ends by a plate (12); said surrounding wall (11) comprising at least one groove (14), said body (1) comprising also at least one inlet opening (15) of fuel gas or air and fuel mixture;
the body (2) comprising a plate (21) from which protrude, at an angle of 60° to 120°, at least two adjacent walls (22) spaced apart, each of said adjacent walls (22) comprises a final end (23) directed toward the plate center (21); the body (2) further comprising at least two regions (24 and 25) capable of deforming through the application of external force;
the body (2) is capable of assuming two stable positions, in which, when cooperating with a body (1), define and engaging position between said bodies (1 and 2) and a disengagement position between said bodies (1 and 2); and
the alteration among the body (2) positions is made by external force applied to at least one among the at least two regions (24 and 25) capable of deforming.

13. Gas burner assembly, according to claim 1, wherein the region (24) capable of deforming the body (2) comprises the central region of the plate (21).

14. Gas burner assembly, according to claim 1, wherein the region (25) capable of deforming the body (2) comprises at least one of at least two adjacent walls (22) spaced apart.

15. Gas burner assembly, according to claims 2 and 3, wherein applying an external force (F1) on region (24) capable of deforming the body (2) results in disengagement position between said bodies (1 and 2).

16. Gas burner assembly, according to claims 2 and 3, wherein applying an external force (F2) on region (25) capable of deforming the body (2) results in engaging position between said bodies (1 and 2).

17. Gas burner assembly, according to claim 1, wherein comprises least one gantry (3).

18. Gas burner assembly, according to claim 6, wherein at least one gantry (3) is disposed on the body (1).

19. Gas burner assembly, according to claim 6, wherein at least one gantry (3) is disposed on the body (2).

20. Gas burner assembly, according to claim 6, wherein at least one gantry (3) is disposed between body (1) and body (2).

21. Gas burner assembly, according to claim 1, wherein the body (1) comprises the burner assembly base and the body (2) comprises the burner assembly lid.

22. Gas burner assembly, according to claim 1, wherein the body (1) comprises the burner assembly lid and the body (2) comprises the burner assembly base.

23. Gas burner assembly, comprising at least two bodies (1 and 2) capable of detachable cooperating association with each other, said gas burner assembly specially comprising:

a locking means defined by cooperating interaction between said two bodies (1 and 2);
the body (1) comprising a surrounding wall (11) closed in one of its ends by a plate (12); said surrounding wall (11) comprising at least one rib (13) and at least one groove (14), said body (1) comprising also at least one inlet opening (15) of fuel gas or air and fuel mixture;
the body (2) comprising a plate (21) from which protrude, at an angle of 60° to 120°, at least two adjacent walls (22) spaced apart, each of said adjacent walls (22) comprising a final end (23) directed toward the plate center (21); the body (2) further comprising at least two regions (24 and 25) capable of deforming through the application of external force;
the body (2) is capable of assuming two stable positions, in which, when cooperating with a body (1), define and engaging position between said bodies (1 and 2) and a disengagement position between said bodies (1 and 2); and
the alteration among the body (2) positions is made by external force applied to at least one among the at least two regions (24 and 25) capable of deforming.

24. Gas burner assembly, according to claim 1, wherein the region (24) capable of deforming the body (2) comprises the central region of the plate (21).

25. Gas burner assembly, according to claim 1, wherein the region (25) capable of deforming the body (2) comprises at least one of the at least two adjacent walls (22) spaced apart.

26. Gas burner assembly, according to claims 2 and 3, wherein applying an external force (F1) on region (24) capable of deforming the body (2) results in disengagement position between said bodies (1 and 2).

27. Gas burner assembly, according to claims 2 and 3, wherein applying an external force (F2) on region (25) capable of deforming the body (2) results in engaging position between said bodies (1 and 2).

28. Gas burner assembly, according to claim 1, wherein further comprises least a gantry (3).

29. Gas burner assembly, according to claim 6, wherein

at least one gantry (3) is disposed on the body (1).

30. Gas burner assembly, according to claim 6, wherein at least one gantry (3) is disposed on the body (2).

31. Gas burner assembly, according to claim 6, wherein at least one gantry (3) is disposed between body (1) and body (2).

32. Gas burner assembly, according to claim 1, wherein the body (1) comprises the burner assembly base and the body (2) comprises the burner assembly lid.

33. Gas burner assembly, according to claim 1, wherein the body (1) comprises the burner assembly lid and the body (2) comprises the burner assembly base.

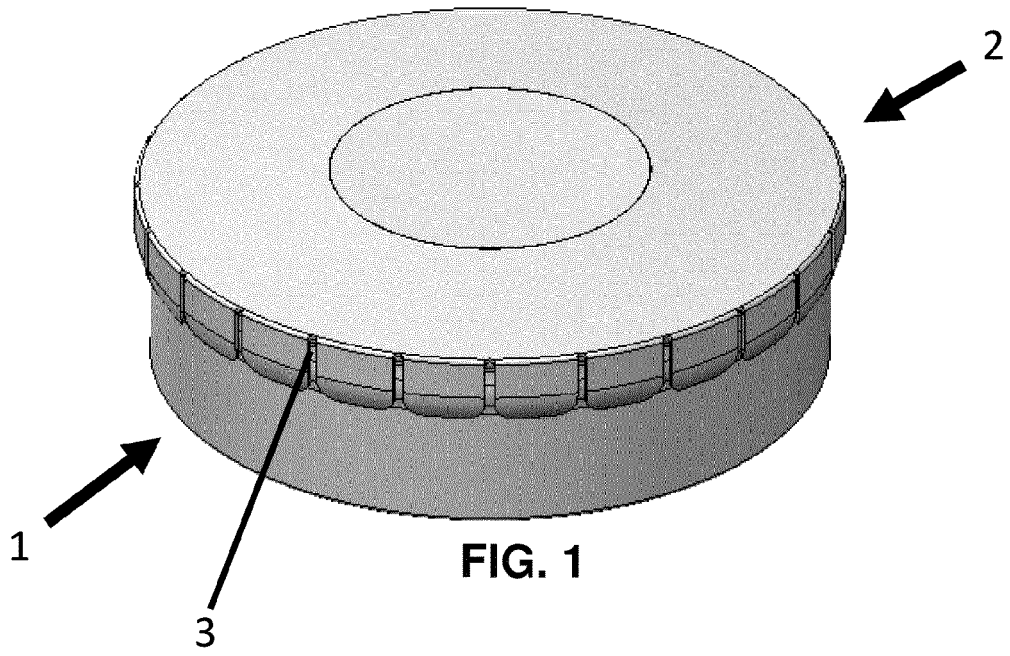

FIG. 1

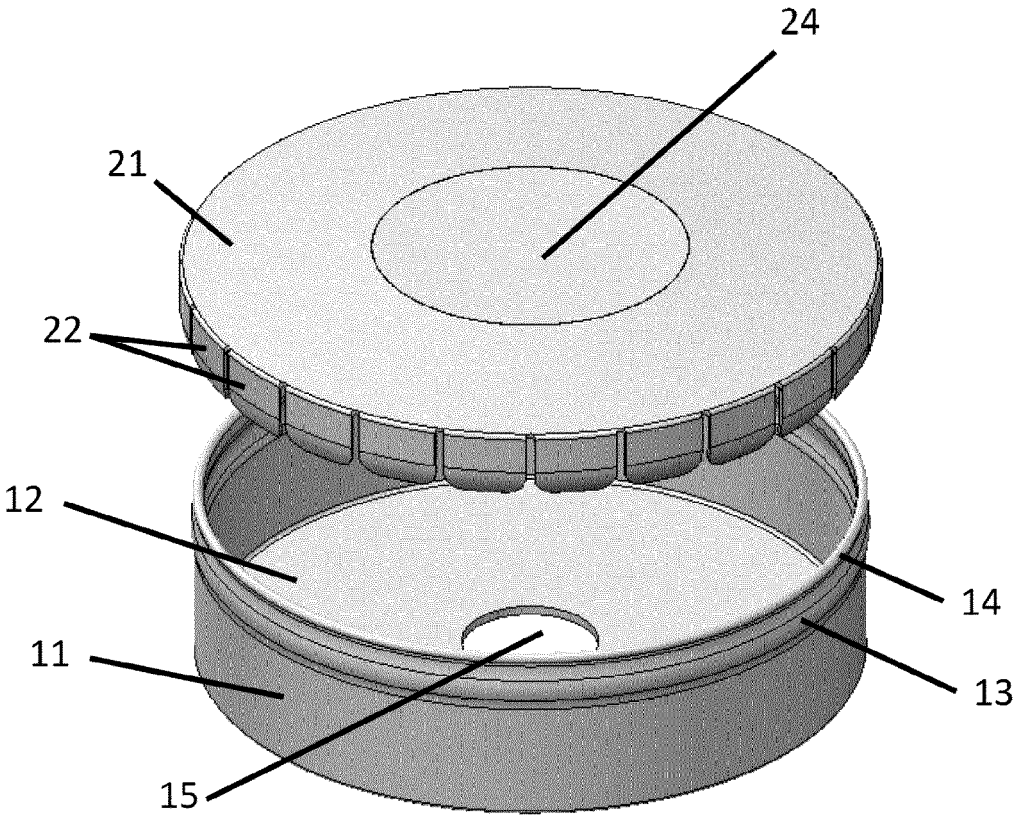

FIG. 2

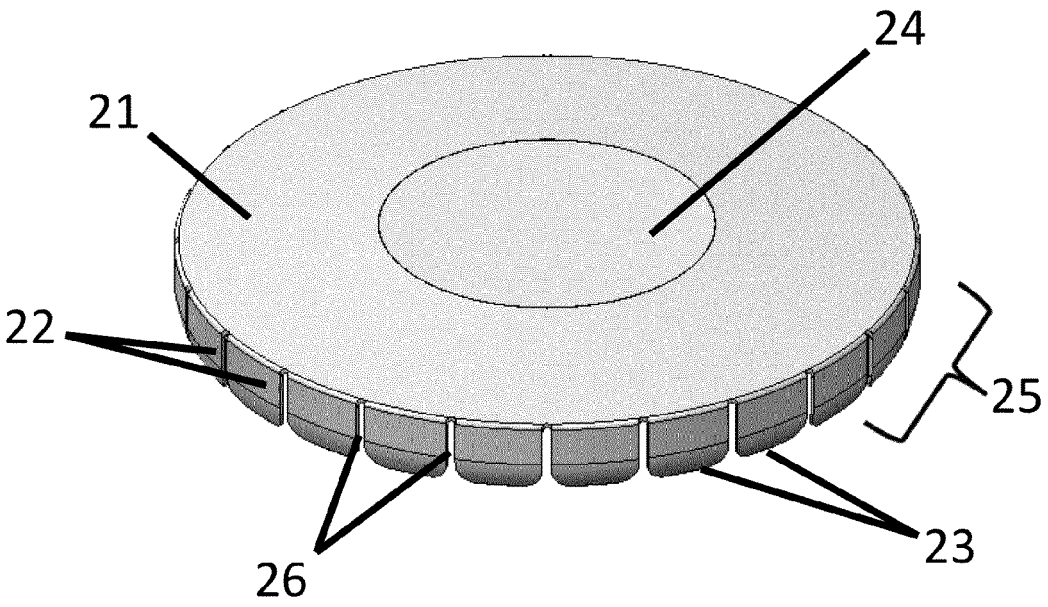

FIG. 3

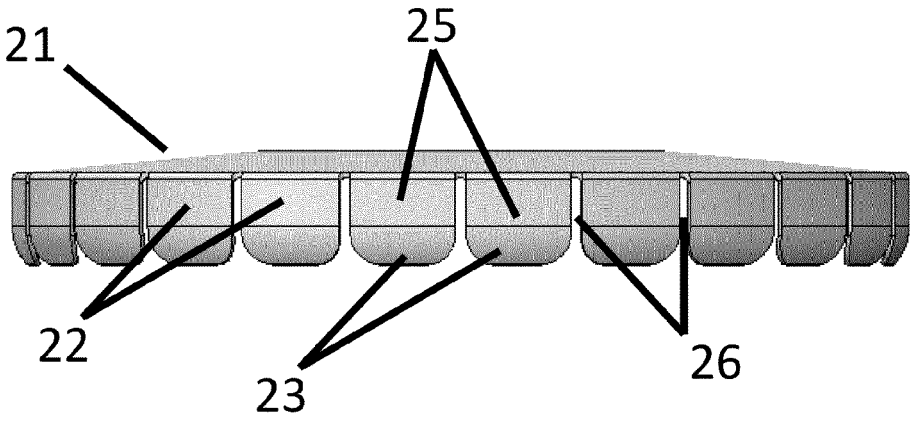

FIG. 4

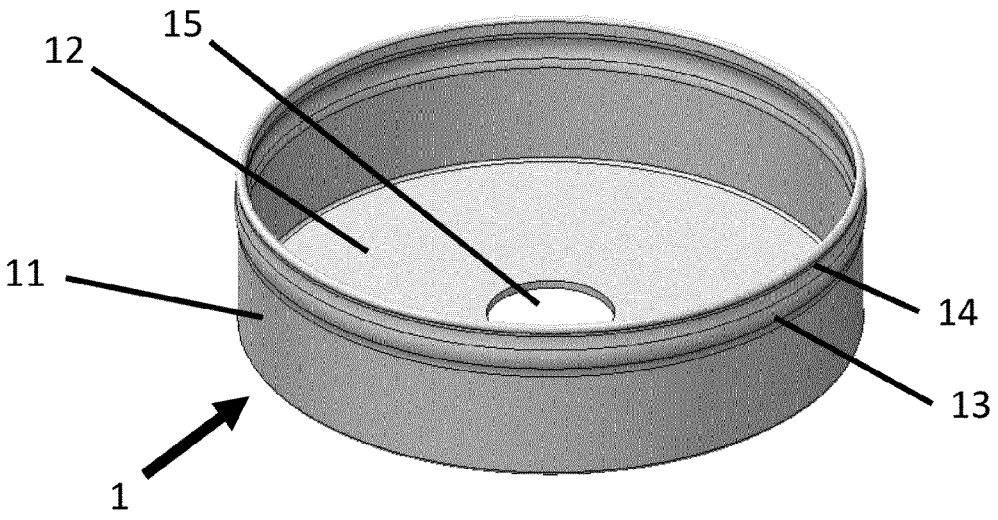

FIG. 5

FIG. 6

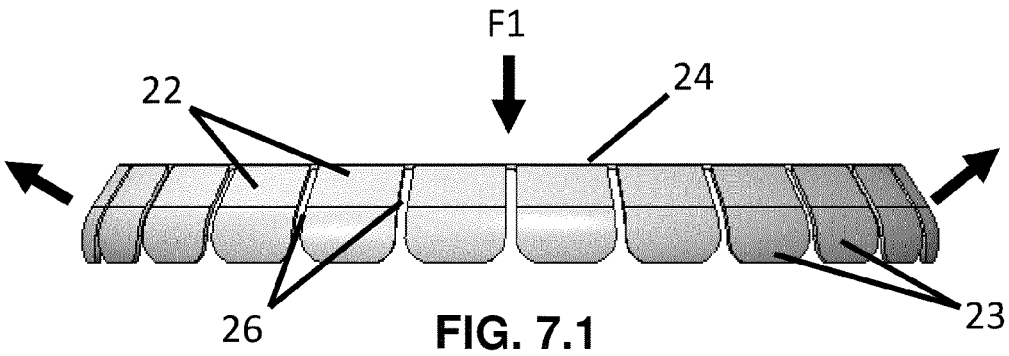

FIG. 7.1

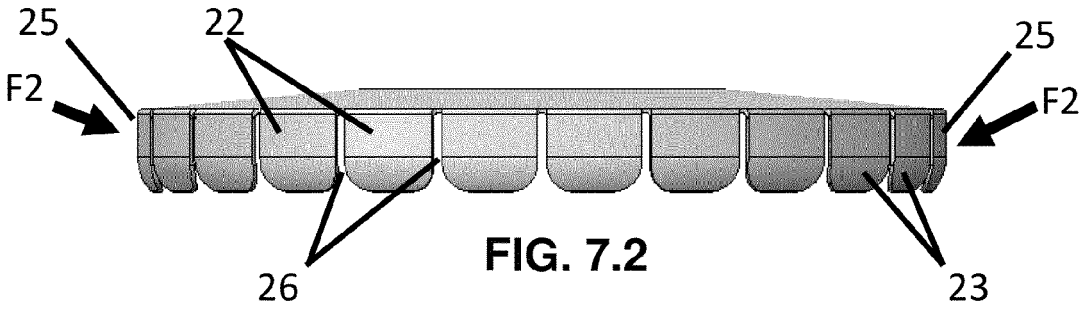

FIG. 7.2

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EUROPEAN SEARCH REPORT

Application Number
EP 15 18 8244

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	FR 1 327 885 A (TREIER ALBERT) 24 May 1963 (1963-05-24) * pages 1-2; figure 1 * -----	1-33	INV. F23D14/06 F23D14/08
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TECHNICAL FIELDS SEARCHED (IPC)

F23D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	2 February 2016	Christen, Jérôme

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