Jan. 4, 1927. 1,613,506

N. J. DELOHI

DENTAL FLASK

Filed July 2, 1926

Fig. 1.

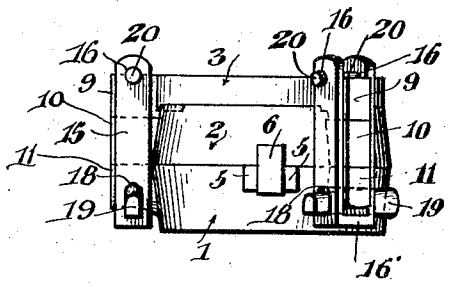


Fig. 2.

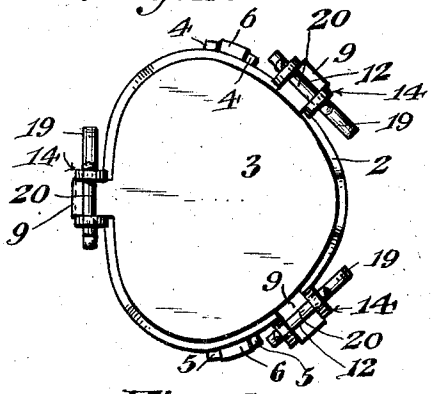


Fig. 4.

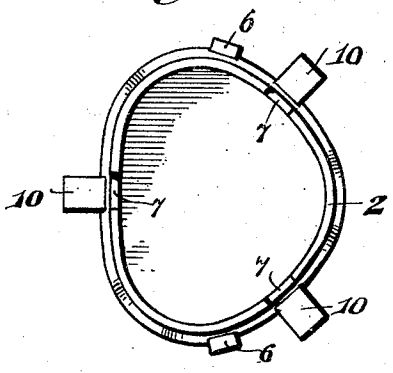


Fig. 3.

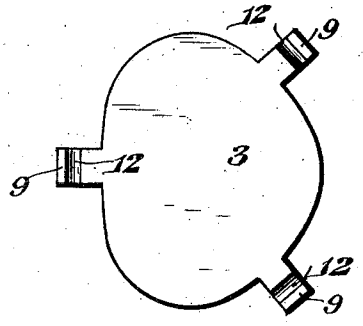


Fig. 5.

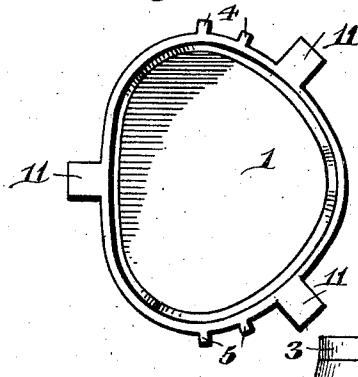


Fig. 6.

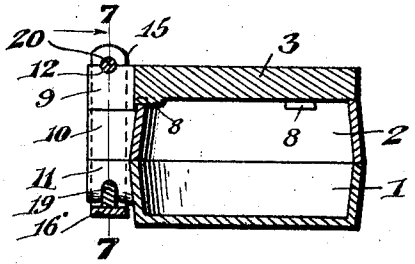
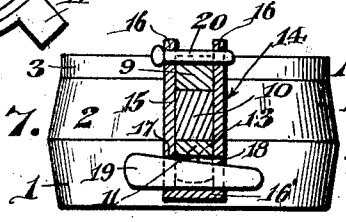


Fig. 7.



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UNITED STATES PATENT OFFICE.

NICHOLAS J. DELOHI, OF SPRINGFIELD, ILLINOIS.

DENTAL FLASK.

Application filed July 2, 1926. Serial No. 120,172.

This invention relates to dental flasks, more particularly to a fastening means for the sections of the body portion thereof and cover for the latter, and has for its object to provide in a manner as hereinafter set forth, a new, novel, strong, durable and efficient fastening means whereby the sections of the flask body and cover for the latter are expeditiously secured together and quickly released when occasion requires.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described, and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:

Figure 1 is a side elevation of a dental flask showing the adaptation therewith of a securing means for the sections of the flask body and the cover for the latter in accordance with this invention.

Figure 2 is a top plan view of Figure 1.

Figure 3 is a top plan view of the cover.

Figure 4 is a top plan view of the upper section or ring of the body portion of the flask.

Figure 5 is a top plan view of the lower section of the flask body.

Figure 6 is a vertical sectional view of the flask.

Figure 7 is a section on line 7—7, Figure 6.

Referring to the drawings in detail 1 denotes the lower or bottom section of a dental flask and 2 the upper section or ring of the flask. The section 2 as arranged in superposed relation with respect to the section 1. The cover or lid for the section 2 is referred to generally by the reference character 3.

The section 1 is formed with two spaced pair of lugs and the lugs of one pair are indicated at 4 and the lugs of the other pair at 5. The lugs of each pair are spaced from each other and one pair is arranged at one end of the section 1 and the other pair at the other end thereof. The lugs 4 and 5 are flush with the top edge of the section 1. Formed integral with the section 2, at each end thereof is a depending lug 6. One of the lugs 6 associates with the pair of lugs 4 and the other lug 6 associates with the pair of lugs 5 for positioning the sections 1 and 2 relatively to each other and further for preventing the shifting of one section relative to the other when the said sections are mounted in superposed relation.

The top edge of the section 2 is formed with a plurality of spaced notches, three in number and which are indicated by the reference character 7. Associated with the notches 7 are protuberances 8 integral with the cover 3 and which seat in the notches 7 to prevent the cover 3 shifting relatively to the section 2 when the cover and section 3 are arranged in superposed relation. The protuberances 8, in connection with the notches 7, further provide means for setting up the cover 3 in proper position with respect to the section 2.

The fastening means for expeditiously securing the sections of the flask body and the cover for the latter together, as well as for quickly releasing the same, comprises sets of coupling lugs, a clamping device common to each set of lugs, and a wedge associated with each clamping device. As shown the fastening means includes three sets of lugs, and which project laterally with respect to the sections of the flask body and the cover for the latter. The lugs of each set are arranged in superposed relation and clamped to each other. The sets of lugs are arranged in spaced relation with respect to each other. The number of lugs of each set is three. As the lugs of each set are of the same construction, the lugs of one set will be described, as the description thereof will apply to the lugs of the other set. The lugs of each set are indicated at 9, 10 and 11. The lugs 9, 10 and 11 are formed integral respectively with the cover 3, section 2 and section 1. The lug 9 at its top is flush with the upper face of the cover 3, but said lug 9 depends below the lower face of the section 3. The lug 10 is formed integral with the section 2 and has its top positioned below the top edge of the section 2, but has its bottom flush with the bottom edge of the section 2. The lug 11 has its top flush with the top edge of the section 1, but its bottom positioned an appropriate distance above the bottom of the section 1. The lug 11 has its bottom formed with a transversely disposed groove extending from one side face to the other side face thereof, see Figure 7. The top of the lug 9

is formed with a semi-circular groove 12. The groove formed in the lug 11 is indicated at 13.

Each clamping device, which associates with a set of lugs, consists of a vertically disposed inverted yoke-shaped member 14, having each of its arms 15 formed near its top with an opening 16. The opening 16 formed in the arms 15 of the yoke 14 aline with each other. The bottom of the yoke or member 14 is indicated at 16 and the arms 15 in proximity to the bottom 16 are formed with openings, and the openings in one arm 15 is indicated at 17 and the opening in the other arm 15 is indicated at 18. The opening 17 is of the same height as the opening 18. The opening 17 registers with one end of the groove 13 and the opening 18 registers with the other end thereof. The openings 17, 18 in connection with the groove. 13 are provided for the passage of a wedge 19 from either side of the member 14 and which coacts with a pin 20 for the purpose of clamping the lugs 9, 10 and 11 together, see Figure 7. The pin 20 extends through the opening 16 and is seated in the groove 12 see Figures 6 and 7.

The lug 10 coacts with the lugs 9 and 11 to provide a support therefor and prevent the breaking off of the lugs when they are clamped together. By driving the wedge 19 from one end thereof, that is the larger end the lugs 9, 10 and 11 are clamped together and the cover tightly held upon the section 2, and further said sections 1 and 2, as well as the cover 3 are clamped together. By driving against the smaller end of the wedge 19, the sections of the flask body and the cover are quickly released.

It is thought that the many advantages of a dental flask in accordance with this invention, can be readily understood, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that changes in the details of construction can be had which will fall within the scope of the invention as claimed.

What I claim is:

1. A dental flask formed of a plurality of body sections and a cover, said sections and cover formed with means to provide sets of laterally disposed superposed lugs, a clamping device surrounding each of said sets of lugs, and means extending through each of the clamping devices and the lower end of the lower lug of each set for clamping the body sections and cover together.

2. A dental flask formed of a series of body sections and a cover, each of said sections and said cover formed with means to provide sets of laterally disposed superposed lugs, the means carried by the cover depending therefrom and opposing the upper of said sections, a clamping device enclosing each set of lugs, and wedges extending through the lower end of said clamping devices and through the lower lugs of said sets for clamping the body sections and cover together.

3. A dental flask formed of a series of body sections and a cover, each of said sections and said cover formed with means to provide sets of laterally disposed superposed lugs, the means carried by the cover depending therefrom and opposing the upper of said sections, a clamping device enclosing each set of lugs, wedges extending through the lower end of said clamping devices and through the lower lugs of said sets for clamping the body sections and cover together, said cover provided with protuberances extending in the top edge of the upper of said body sections to prevent the latter shifting relatively to the cover, and said body sections having peripherally arranged interengaging means to prevent one shifting relatively to the other, the said peripherally arranged interengaging means formed integral with the bottom of an upper section and depending therefrom and further formed integral with the top of the lower section.

4. A dental flask including a lower body section, an upper body section, a cover for said upper section, each of said sections and said cover having coacting means to provide a plurality of sets of laterally disposed superposed lugs, the lugs projecting from the cover formed at the top thereof with a groove, the lugs projecting from said lower section formed at the bottom thereof with a groove, an inverted yoke shaped member associated with each set of lugs, pins carried by said members and seated in said top grooves, wedges removably mounted in said members and extending through said bottom grooves to provide for the clamping of said cover and sections together.

5. A dental flask formed of superposed body sections and a cover for the upper section, said sections and cover provided with coacting means to provide a plurality of sets of laterally disposed superposed lugs, a pin seating in the upper lug of each of said sets, an inverted yoke-shaped member associated with each set of lugs and depending therefrom, each of said members having one of said pins extend through the upper end thereof, and wedges extending through the lower lugs of said sets and through said members above the bottoms of these latter and coacting with said pins for clamping the lugs of said sets in abutting engagement to provide for the clamping of said cover and sections together.

In testimony whereof, I affix my signature hereto.

NICHOLAS J. DELOHI.