

(No Model.)

M. R. B. CREERY.
CLAMP FOR DENTAL FLASKS.

No. 478,312.

Patented July 5, 1892.

Fig. 1.

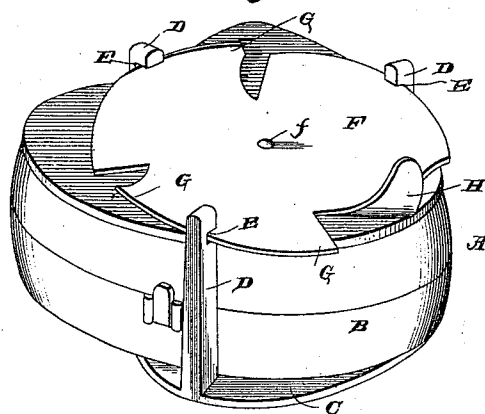


Fig. 2.

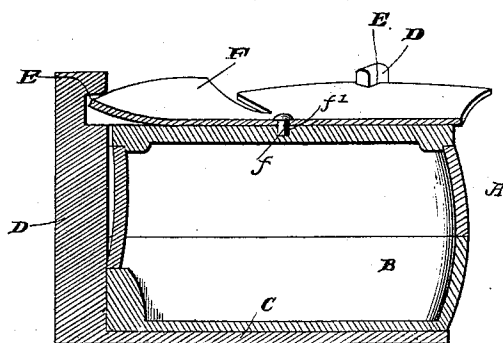


Fig. 3.

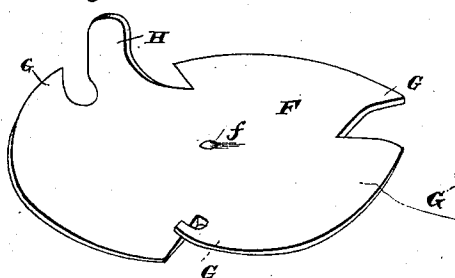
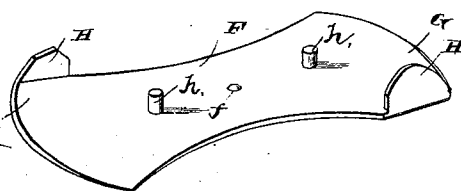


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

MORGAN RHEES BANKS CREERY, OF EBENSBURG, PENNSYLVANIA.

CLAMP FOR DENTAL FLASKS.

SPECIFICATION forming part of Letters Patent No. 478,312, dated July 5, 1892.

Application filed December 5, 1891. Serial No. 414,133. (No model.)

To all whom it may concern:

Be it known that I, MORGAN RHEES BANKS CREERY, a citizen of the United States, residing at Ebensburg, in the county of Cambria and State of Pennsylvania, have invented a new and useful Improvement in Clamps for Dental Flasks, of which the following is a specification.

This invention relates to clamps for dental flasks; and it has for its object to provide an improved spring clamping device which can be readily adapted to any dental vulcanizing-flask with but a slight alteration in the pattern and one which will be especially designed to equalize the pressure in forcing the flask members together upon the rubber placed therein.

With these and many other objects in view, which will readily appear to those skilled in the art, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a dental flask provided with a spring clamping plate constructed in accordance with my invention. Fig. 2 is a vertical transverse section of the same. Fig. 3 is a detail in perspective of the clamping-plate detached. Fig. 4 is a similar view of a simplified form adapted for another construction of flask.

Referring to the accompanying drawings, A represents a dental vulcanizing-flask of well-known pattern and having the principal parts used in most all flasks of this character, and the same comprises the upper and lower flask members B, seated upon the base C and inclosed within the series of upright posts D, arising from said base and holding the flask members thereon in any manner, according to the construction of the flask. The upper ends of each of said posts, which project above the top of the upper flask member when the two are placed together, are provided with the notches or shoulders E.

A spring clamping plate or disk F is designed to be pivotally mounted upon the top of the upper flask member and securely clamp said members together, as is provided for by

this invention. The said plate F is provided with a pivot stud or pin *f* upon the under side thereof, that is adapted to engage the recess or opening *f'* in the top of the upper flask member, and thus pivotally mounts said plate upon the top of the flask. The plate F is composed of spring metal to especially adapt it for the purposes for which it is used and is provided with a series of spring locking-lips G, bent upwardly, so that in turning said plate the spring-lips will simultaneously engage and slide beneath the notches or shoulders of the side posts of the flask, and thus cause the pressure to be evenly distributed and exerted upon the top of the flask to securely clamp the members thereof together and the rubber therein, as will be readily apparent. The spring-plate F is further provided with an upturned operating flange or flanges H, as shown in Fig. 4, which may either be grasped by the fingers, so as to revolve the plate and throw the upturned spring-lips beneath the locking-notches of the flask, or the said plate may be turned to clamp the flask by placing a small rod or other device between the studs *h*, or across from flange to flange when there are two flanges, as in Fig. 4, so as to obtain a leverage for turning the same.

In Fig. 4 the plate F is illustrated as having but two opposite locking ends or edges. It will be readily seen by the line of perspective in this figure that the opposite locking ends or edges of said plate are twisted reversely to each other, so as to form upwardly-bent locking lip or tongue portions adjacent to the opposite flanges H, which portions correspond, practically, to the construction of the series of spring-lips G shown in the other figures and identically with the same in point of operation.

The construction, operation, and adaptation of the herein-described clamp is now thought to be apparent without further description.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a clamp for dental flasks, the combination, with the flask having the side posts provided with locking notches or shoulders, of a spring-metal clamping-plate pivoted upon

the top of said flask and provided with upturned lips adapted to engage said locking shoulders or notches, substantially as set forth.

2. In a clamp for dental flasks, the combination, with the flask having the side posts provided with locking notches or shoulders and a top perforation or recess, of a movable spring-metal clamping-plate having a pivot stud or pin engaging said top perforation or
10 recess, a series of upturned spring locking-lips

adapted to engage said locking shoulders or notches, and operating-flanges, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in
15 the presence of two witnesses.

MORGAN RHEES BANKS CREERY.

Witnesses:

H. A. ENGLEHART,
C. J. BLAIR.