H. E. BASEHORE & E. L. KRAFT.

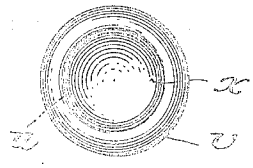
AMALGAM MIXER.

APPLICATION FILED MAY 23, 1916.

1,207,733.

Patented Dec. 12, 1916.

Fig. 2.



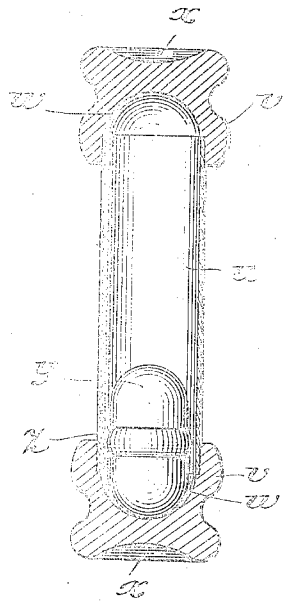




Fig. 1.

Witness
Henry A. Huy

Inventors:
H. E. Basehore
Edward L. Kraft

# UNITED STATES PATENT OFFICE.

HORACE E. BASEHORE AND EDWARD L. KRAFT, OF YORK, PENNSYLVANIA.

## AMALGAM-MIXER.

1,207,703. Specification of Letters Patent. Patented Dec. 12, 1916.

Original application filed March 22, 1915, Serial No. 16,187. Divided and this application filed May 23, 1916. Serial No. 99,424.

*To all whom it may concern:*

Be it known that we, HORACE E. BASEHORE and EDWARD L. KRAFT, citizens of the United States of America, and residents of York, county of York, State of Pennsylvania, have invented certain new and useful Improvements in Amalgam-Mixers, of which the following is a full and clear specification.

Our invention is designed to provide a simple device for mixing dental alloy and mercury after it is measured by the dentist, the object being to provide a device which will quickly and thoroughly amalgamate these substances, as more fully hereinafter set forth.

Figure 1 is a sectional view of a device embodying our invention. Fig. 2 is an end view of the same.

Our device consists, in its preferred form, of a cylindrical tube *u* closed at each of its ends with a cap *v* having a close fractional fit on the tube. The inner face of each cap is concaved at *w* and the outer face of each cap is concaved as at *x*. Loosely mounted in the tube is a metal weight *y* slightly elongated and rounded at each end and provided with an annular bead *z* about midway its length, which approximately fits the inner diameter of the tube. It will be observed that instead of an elongated weight having rounded ends, we may use a weight having any other conformation; for instance, we may use a spherical weight.

Either cap may be removed to enable the alloy and mercury to be dumped into the tube. After the alloy and mercury are placed in the tube, the weight is dropped into the tube upon the alloy and mercury collected in the lower cup *w*. The upper cap is then replaced, and the mixing necessary to bring about the amalgamation is obtained by sharply shaking the device, the operator holding the cap on by placing his thumb in one of the sockets and his forefinger in the other socket. The shaking of the device causes the weight to act in the manner of a pestle and the lower one of the cups *w* to perform the function of a mortar, as is obvious. After the mixing is completed, the lower cap containing the amalgam is slipped off the tube, and the amalgam can then be easily removed from the mortar. It will be observed that it is important that both cups be removable, from the cylinder, so that the amalgam may be collected into either one of them and that one be removed.

This application is a division of our copending application Serial No. 16,187, filed March 22, 1915.

Having thus described our invention, what we claim is:

An alloy and mercury amalgamating device, consisting of an open-ended tube, a cap removably covering each end of the tube and provided in its inner face with a mortar-like depression, and a rounded weight mounted to reciprocate freely in said tube, for the purpose set forth.

In testimony whereof we hereunto affix our signatures this 24th day of April, 1916.

HORACE E. BASEHORE.
EDWARD L. KRAFT.

Witnesses:
DONALD KETTERMAR,
HENRY O. HAY.