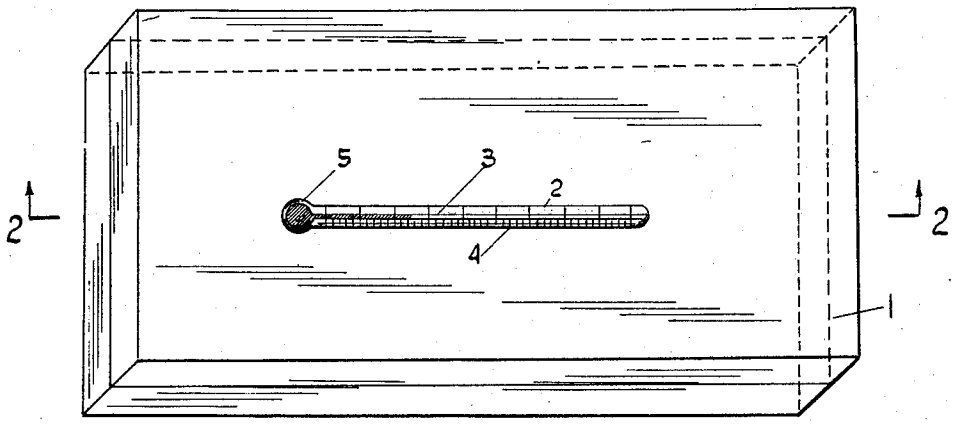
April 18, 1933. C. J. McCANN 1,904,766

DENTIST'S MIXING PLATE

Filed Dec. 26, 1930

FIG. 1



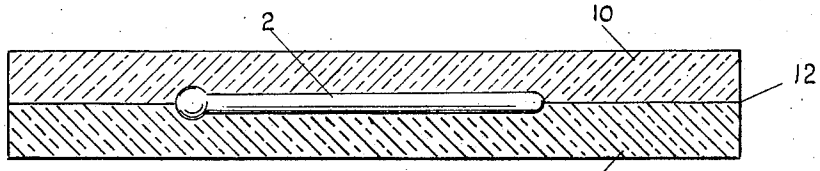


FIG. 2

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DENTIST'S MIXING PLATE

Application filed December 26, 1930. Serial No. 504,725.

This invention has to do with working plates and particularly plates which are known as mixing plates used for providing a surface for mixing certain material. More specifically, the invention relates to a mixing plate of the type used by dentists in mixing material such as enamel for artificial work. The invention is not to be limited solely to mixing plates thus used but for the purpose of making this disclosure, mixing plates as used by dentists will be referred to.

Such mixing plates may consist of a block of material, such as glass, upon which the enamel is mixed and worked in preparation for its utilization in teeth. It is advantageous that such mixing plates be maintained at a temperature requisite for obtaining the desired results in the enamel. In other words, the plate must be in a heated condition during the time the enamel is being mixed and worked thereon in order that no ill effects result in the finished enamel article. Accordingly this invention contemplates a mixing plate embodying a heat indicating unit so that the temperature of the mixing plate may at once be accurately determined. The plate should be from 25 to 70 degrees Fahrenheit for best results in some enamel work.

In the accompanying drawing:

Fig. 1 is a perspective view of a mixing plate embodying the temperature indicator as contemplated by the present invention.

Fig. 2 is a sectional view taken through the plate.

As shown in the drawing herein the mixing plate in Fig. 1 consists of a plate or block 1 which may be formed of two pieces of translucent or transparent material. Glass affords such material. Embedded in the body of the mixing plate is a thermometer 2 consisting of a stem 3 provided with suitable indicia 4, and with the usual bulb 5 containing the expansible and contractable substance. As shown in Fig. 1, the thermometer is positioned substantially centrally of the mixing plate, but it is within the invention to dispose it in any advantageous position. The thermometer itself is of glass, and thus the coefficient of expansion of both thermometer and body of glass constituting the plate are substantially the same.

With the mixing plate itself made of translucent or transparent material the thermometer and indicia thereon are readily visible. Accordingly the temperature of the plate may be determined with a nicety.

The plate may be made up in two sections, one section being shown at 10 and another 11, and these formed with recesses which cooperate when the plates are placed together to form a cavity in which a thermometer 2 may be disposed. In a plate of this kind the two parts may be sealed, as at 12, around their edges so as to substantially form one integral structure.

Such a mixing plate constructed in accordance with this invention embodying in its make-up a temperature-indicating device which is readily visible, is capable of having its temperature accurately determined with the result that the enamel or other substance mixed or worked thereon comes out properly in the finished work.

In the description use is made of the term "embedded" and this is intended to cover the construction where the thermometer is disposed in a preformed cavity.

I claim:

A dental mixing plate comprising a body of glass having one side substantially plane with a depression therein, another body of glass similar to the first and having one side substantially plane with a depression therein similar to that of the first, said glass bodies being placed together with said plane sides against each other and with the surfaces of the said sides substantially coplanar and with the depressions cooperating to form a confined space, said confined space having a shape such as to receive a thermometer with a bulb and stem with the depressions providing an enlarged portion of the confined space for receiving the bulb, a thermometer disposed in said space and substantially fitting the same, and said glass bodies being sealed together around their edges.

In testimony whereof I affix my signature.

CHARLES J. McCANN.