Jan. 26, 1932. G. P. WANNEMACHER 1,842,923

SHADE GUIDE

Filed Dec. 3, 1928

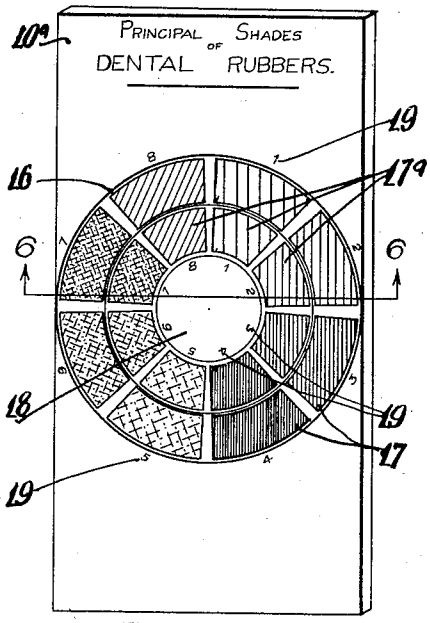



Fig. 1.

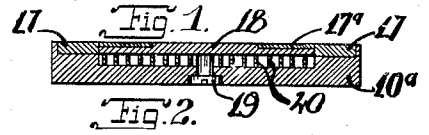



Fig. 2.

INVENTOR.

BY George P. Wannemacher

Zoltan D. Blackley

ATTORNEY

Patented Jan. 26, 1932 1,842,923

# UNITED STATES PATENT OFFICE

GEORGE P. WANNEMACHER, OF NEW YORK, N. Y., ASSIGNOR TO THE AMALGAMATED DENTAL CO. LTD., OF LONDON, ENGLAND

## SHADE GUIDE

Application filed December 3, 1928. Serial No. 323,248.

This invention relates generally to the dental goods and has more particular reference to a novel shade guide for dental rubbers.

The invention has for an object the provision of an article of the class mentioned, which is of simple durable construction, desirable in use and efficient in action, and which can be manufactured and sold at a reasonable cost.

The invention proposes the use of a backing block vulcanized in a mold with sunken recesses and vulcanized dental blocks inserted in the recesses in the backing block and vulcanized therein. These dental blocks are of various shades for indicating dental rubber shades and are preferably arranged in a consecutive order with the lighter shades first and darker succeeding shades. Indicating numerals are arranged on the sides of the dental blocks, and on the rear side of the holding block an index is provided giving the names of the various shades as disclosed by the blocks. A means may be provided for moving certain of the blocks alongside other stationary blocks so that the colors may be compared.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:—

Fig. 1 is a perspective view of a device constructed according to this invention.

Fig. 2 is a transverse sectional view, taken on the line 6—6 of Fig. 1.

In the device illustrated in Figs. 1 and 2 a backing block $10^a$ has been shown provided with a circular recess 16 and a plurality of dental vulcanite rubber blocks 17 are vulcanized within this recess. A rotatable circular block 18 is mounted upon the backing block $10^a$ by the spindles 19 and is disposed within the recess 16 so that its top surface is flushed with the top surface of the backing block.

A plurality of dental vulcanite rubber blocks $17^a$ are vulcanized along the edges of the circular block and are arranged for aligning with the blocks 17. Indicating symbols 19 are arranged along the outer periphery of the blocks 17 and similar symbols 19′ are arranged within the boundaries of the blocks $17^a$. Like numerals are applied to blocks of the same shade and normally a specific shade of block in the outer circle is directly opposite the same shade in the inner circle.

A spiral spring 20 is disposed between the circular block and the backing block and acts between these blocks for normally holding the circular block in the before mentioned position. If it is desired to compare the shades of the blocks on the outer circle with any particular shade of block in the inner circle it is necessary only to manually move the circular block 18 so that the blocks could be compared. Upon releasing the block 18 returns to its normal position.

All of the dental color blocks are of colors for matching different shades of person's gums. This being the case the different blocks closely resemble each other, and therefore it is highly desirable to bring different shade blocks together for comparison since the closer they are the more accurate the comparison will be. The use of the shade guide consists in first placing it as close as possible to one's gums and picking out a block of a shade closest to the person's gums. After this is done, and if the particular shade is out of stock this particular shade of block is compared with other shades available by rotating the rotative circular block for positioning other blocks adjacent to the one selected. The one's judgment may be used for determining whether the selected shade or one of the other shades just matched with this shade will be the most desirable in a particular case.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what

I claim as new, and desire to secure by United States Letters Patent is:—

1. A shade guide for dental rubbers, comprising a vulcanized backing placard with recesses arranged in a complete circle, dental vulcanite rubber blocks of different shades from each other and from said backing placard vulcanized within the recesses, a vulcanized circular block rotatively mounted on the said backing placard within a recess in the backing placard and within the circle of the said dental blocks corresponding with the shades of said blocks and other dental blocks vulcanized within recesses in the circular block along its edges, and spring connected between the circular block and the backing block for resiliently holding the circular block in a position so that like shades of the first mentioned blocks and of the second mentioned blocks are adjacent each other, and so that the circular block may be turned for bringing different shades of these blocks adjacent each other.

2. A shade guide for dental rubbers, comprising a vulcanized backing placard with recesses arranged in a complete circle, dental vulcanite rubber blocks of different shades from each other and from said backing placard vulcanized within the recesses, a vulcanized circular block rotatively mounted on the said backing placard within a recess in the backing placard and within the circle of the said dental blocks, other dental blocks corresponding with the shades of said blocks and vulcanized within recesses in the circular block along its edges, and a spring connected between the circular block and the backing placard for resiliently holding the circular block in a position so that like shades of the first mentioned blocks and of the second mentioned blocks are adjacent each other, and so that the circular blocks may be turned for bringing different shades of these blocks adjacent each other, said spring being within said recess in the backing placard and being completely covered by said circular block.

In testimony whereof I have affixed my signature.

GEORGE P. WANNEMACHER.