

(No Model.)

E. R. MAGNUS.  
DENTIST'S BENCH BLOCK.

No. 411,461.

Patented Sept. 24, 1889.

Fig. 1

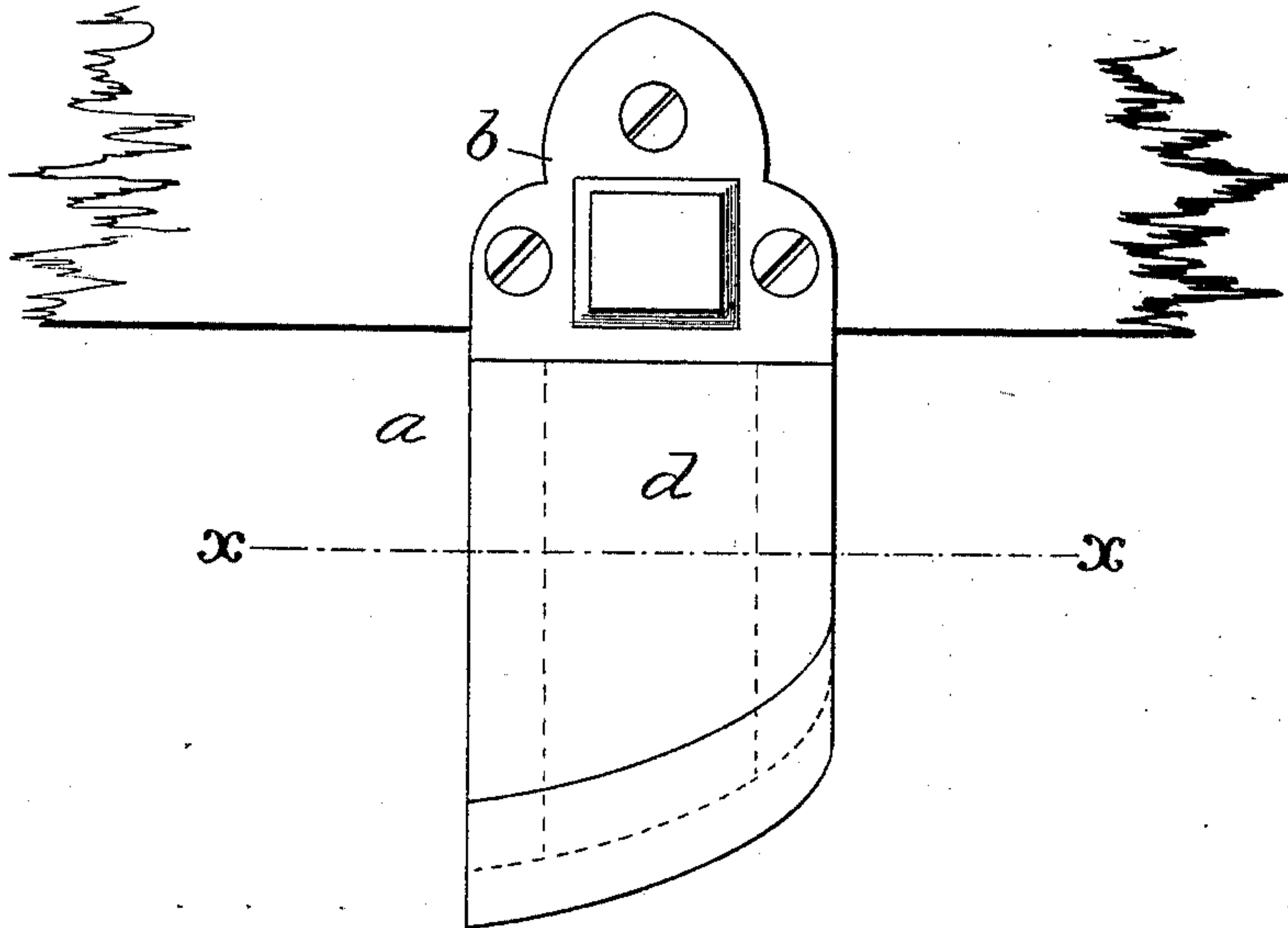


Fig. 2

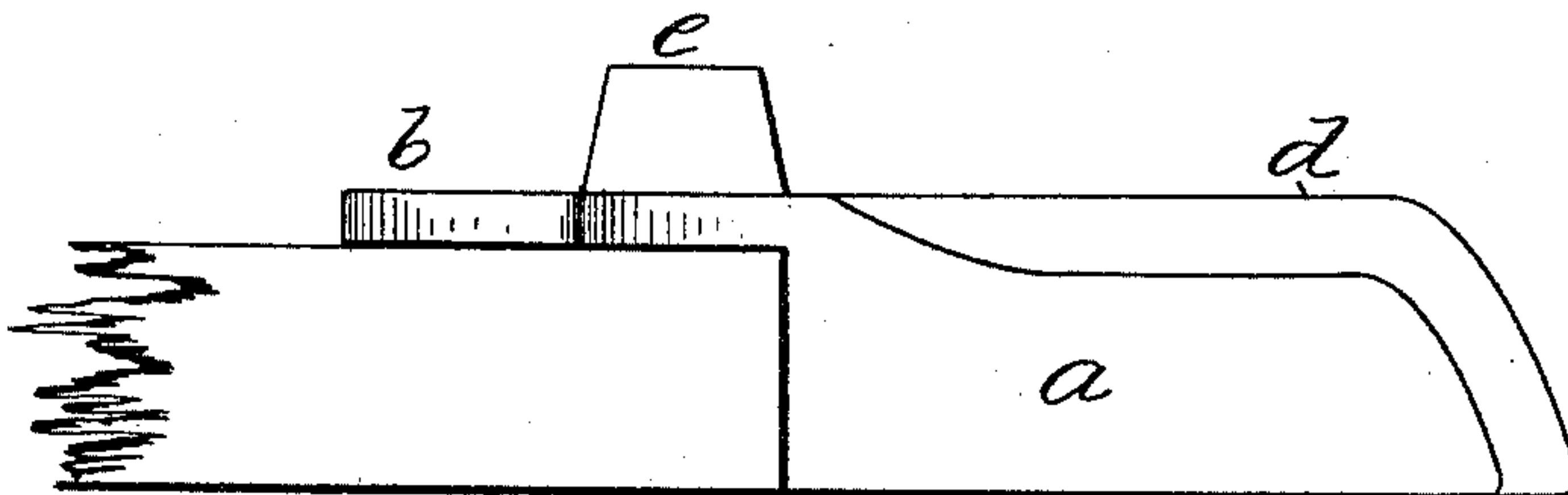


Fig. 3

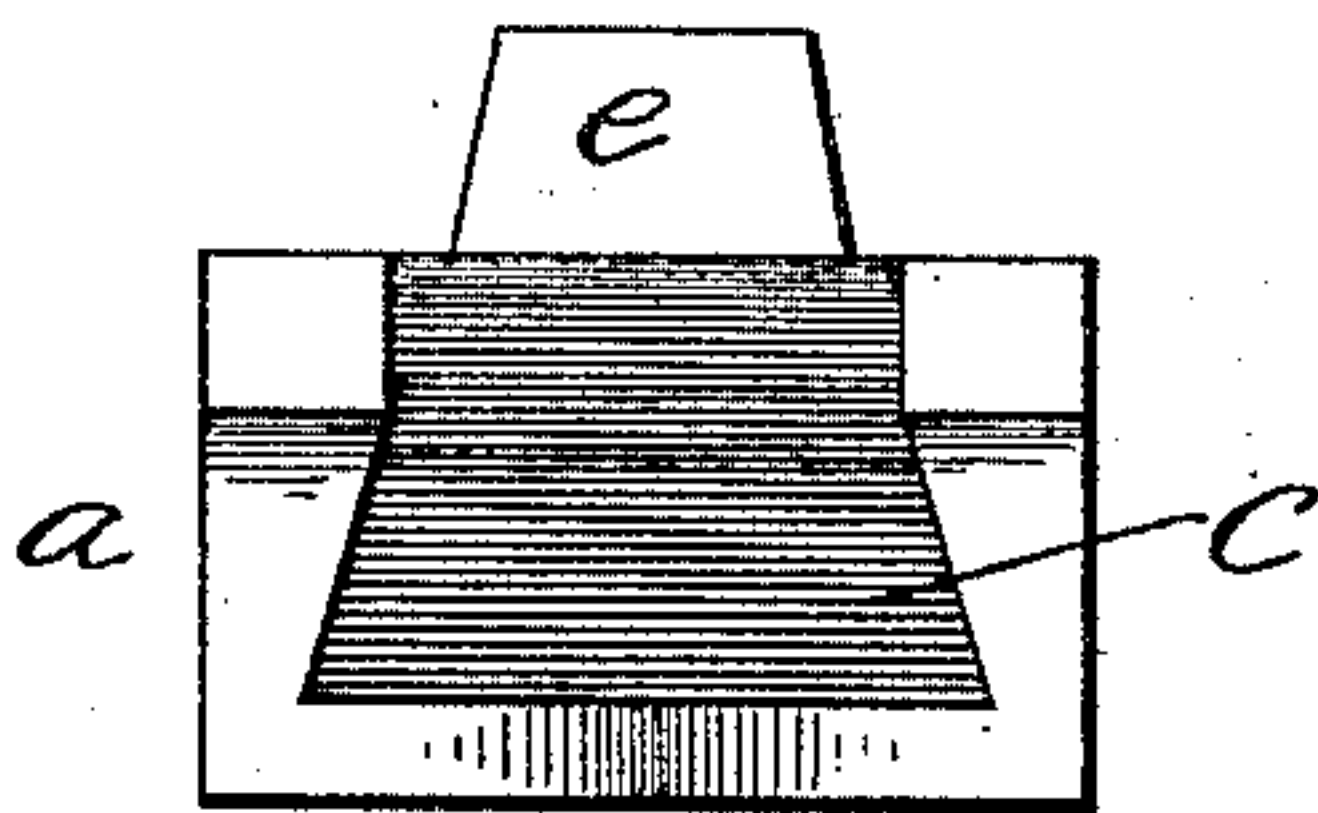
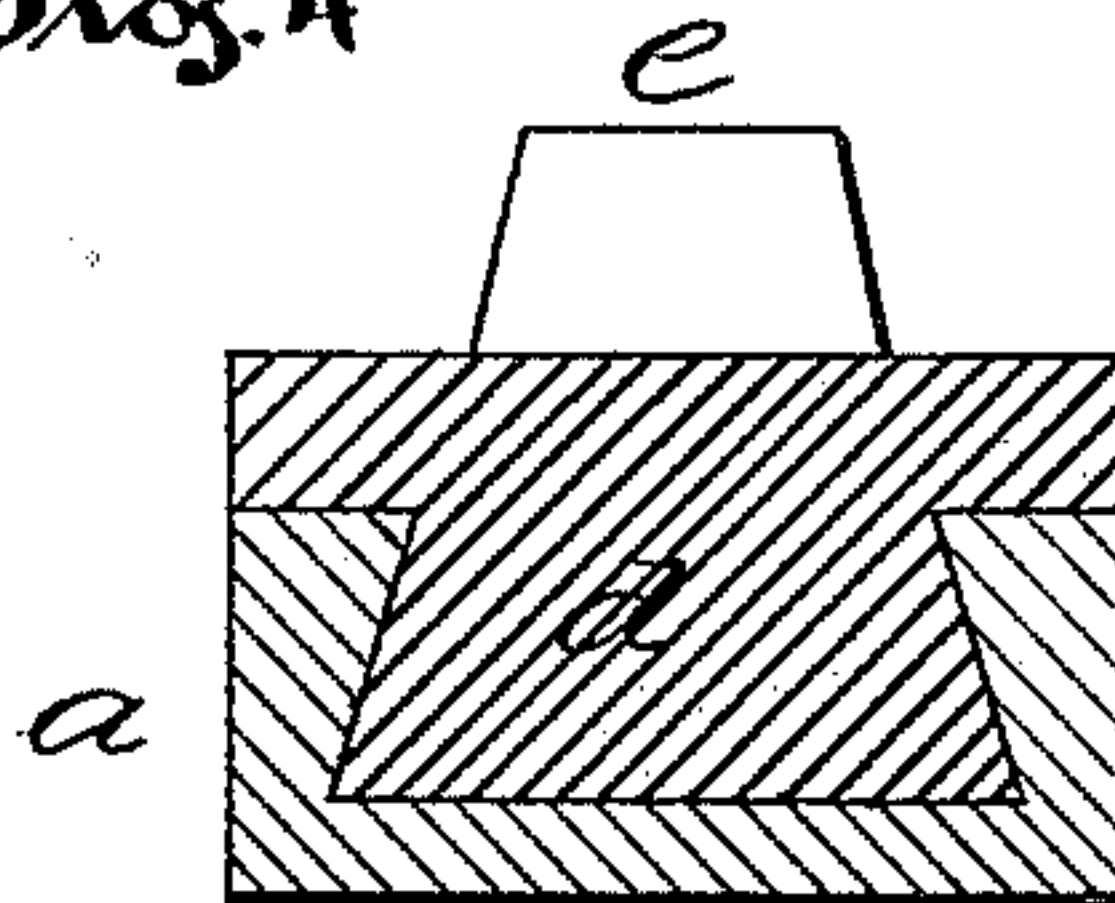


Fig. 4



Witnesses:

Harry P. Williams.  
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# UNITED STATES PATENT OFFICE.

EDWIN R. MAGNUS, OF NEW BRITAIN, CONNECTICUT.

## DENTIST'S BENCH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 411,461, dated September 24, 1889.

Application filed April 16, 1889. Serial No. 307,511. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN R. MAGNUS, of New Britain, in the county of Hartford and State of Connecticut, have invented certain  
5 new and useful Improvements in Dentists' Bench-Blocks, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

10 The object of my invention is to provide a bench-block that can be secured to the edge of a bench in proper position to form a support for a set or partial set of artificial teeth, while finishing the latter, the block being  
15 provided with a bearing-surface that will enable such work to be done without the danger incident to the use of the old devices.

To this end my invention consists of a bench-block composed of a frame and having  
20 a working-face of india-rubber or like soft and elastic material.

It also further consists in the frame or shell provided with means for removably attaching it to the edge of a bench, and also  
25 with a socket, in combination with the renewable working-faces adapted to fit the said socket.

It further consists in the bench-block having an anvil, a socket, and a removable working-surface of india-rubber or like elastic material removably secured in said socket; and it further consists in details of the several parts of the device making up the structure as a whole, and in their combination, as  
35 more particularly hereinafter described, and pointed out in the claims.

Referring to the drawings, Figure 1 is a detail top view of one form of my improved bench-block, shown in position secured to the  
40 edge of a bench. Fig. 2 is a detail side view of the block. Fig. 3 is a detail end view of the frame of the block with the soft working-surface removed. Fig. 4 is a view in vertical cross-section through the block, including  
45 frame and working-surface.

In the accompanying drawings, the letter *a* denotes the frame of the block, that is preferably of metal cast to shape, with a flat portion *b*, provided with screw-holes or having

like provision by means of which the frame 50 may be secured to the edge of a bench. The main portion of the frame projects beyond the edge of the bench and is provided with a socket *c*, that preferably has the overhanging sides forming a dovetailed socket, as seen in  
55 cross-section. The soft working-surface *d*, that is preferably made of india-rubber or a like elastic material, is provided with a dovetailed tenon or one that is adapted to fit the socket, so that it may be readily slipped into 60 place and held in the socket when in use.

I do not limit myself to the specific dovetail in cross-sectional form of the socket, as any other form which permits ready removal and insertion of the soft working-surface may 65 be used without departing from my invention; and, if preferred, the working-surface may be preferably held in place by means of a screw or pin passing through the walls of the socket-piece into the block forming the  
70 working-surface. The front end of the block forming the soft working-surface is preferably chamfered or cut at an angle on the outer end to form the most convenient working-surface for the purpose in hand. 75

On the upper part of the frame that rests upon the bench there is formed an upwardly-projecting anvil *e*, that is of use in connection with the operation of finishing a set of  
80 teeth.

It is sometimes desirable to have the bench-block provided with a surface not so soft or elastic as that furnished by rubber or like gum or composition, and in such cases a working-surface of wood is provided, that fits and  
85 is held snugly in the socket in the frame, from which the rubber is readily removed for the insertion of the other working-surface, that is in all cases non-metallic.

I claim as my invention— 90

1. A bench-block composed of a frame having means for connection to a bench and provided with renewable working-surface of non-metallic material, all substantially as described. 95

2. A bench-block composed of a frame of metal and having a socket in the projecting part of the frame, in combination with the

removable working-surface formed of rubber or like soft material, all substantially as described.

3. In combination, in a bench-block, the  
5 frame having the anvil and the projecting part with a socket and the removable working-surface formed of soft material with the

outer end cut at an angle, all substantially as described.

EDWIN R. MAGNUS.

Witnesses:

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