CASE FOR DENTAL INSTRUMENTS.

(Application filed Apr. 11, 1901.)

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To all whom it may concern:

Be it known that we, ADOLPH ADERER, JULIUS ADERER, and HUGO ADERER, citizens of the United States, residing at the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Cases for Dental Instruments, of which the following is a full, clear, and exact specification.

This invention relates to cases for dental instruments; and its object is to construct a case for containing the instruments employed in making and fitting seamless dental crowns, such that the instruments may be compactly and orderly arranged therein for transportation and at the same time be readily used for a work-bench or the like without requiring specially-constructed appliances for the purpose.

The invention will be more particularly described with reference to the construction shown in the accompanying drawings, in which Figure 1 is a perspective view of the case, showing the lid open and the die-plate and die-mack in position; and Fig. 2 is a side sectional view of the case shown in Fig. 1.

Referring more particularly to the drawings, 1 represents the base of the case, and 2, 3, and 4 the respective sides thereof, these sides being firmly mounted upon the base partition 9, which is the lid or cover, hinged to the side 3 and having the lid 6 hinged to its outer edge, the lid and side 6 being adapted to swing over and cover the top and front of the case.

5 is a hook carried by the side 6 and adapted to engage the eye 8, attached to the base 1.

The partition 9 is supported upon the base 1 and bracketed between the sides 2 and 4, parallel with the side 3, thus forming a perpendicular compartment having for its sides the partition 9 and the sides 2, 3, and 4, into which compartment the block 10, of substantially the same sectional contour as the compartment, is adapted to fit. The block 10 is of a thickness considerably less than the depth of the case and has formed therein a plurality of sockets or holes 11, into which the various dies and punches may be placed. A longitudinal recess 12 is formed in one side of the block 10 and adapted to receive the die-plate 13.

Shoulders 14 14 are formed in the sides 2 55 and 4 and extend from the partition 9 to the front of the case, and at the front of the case a brace 15 is fitted between the two sides 2 and 4 and rests upon the shoulders 14 14. This arrangement forms a substantial bench, of which the sides 2 and 4 are the legs and the partition 9 and the brace 15 are the sides. Into this bench the die-plate 16 is placed, forming the top of the bench, the ends of the draw-plate resting upon the ends of the shoulders 14 14 in the sides 2 and 4.

In order to transport the system, the draw-plate 16 is placed in the bench, the die-plate 13 in the space 12 between the rack 10 and the wall 3, and the dies and punches are placed in the respective holes 11 in the rack 10. The lid 5 and side 6 are then folded down and the hook 7 fastened. The system is ready for use as soon as the lid is open, for the various dies may be punched to form the crowns by driving the punches through the proper holes in the draw-plate, the chamber 17 beneath the draw-plate being sufficiently deep to allow the punch to be driven through the plate in order to allow the punch to be readily removed.

Having thus described our invention, we declare that what we claim as new, and desire to secure by Letters Patent, is:

1. In a case for dental instruments, the combination with a box or case, of means for holding the dental punches, and a draw-plate having openings extending therethrough adapted for the swaging of tooth-crowns by manipulation of the punches therewith, said draw-plate being held in the case above the bottom thereof whereby a clear space is left beneath the draw-plate to facilitate the manipulation and withdrawal of the punches when they are used.

2. In a case for dental instruments, the combination with a box or case open at one of its sides, of means for holding the dental punches in the rear of the case, and a draw-plate having openings extending therethrough adapted for the swaging of tooth-crowns by manipulation of the punches therewith, said draw-plate being held in the case above the bottom thereof adjacent the open side of the case,
whereby a clear space is left beneath the draw-plate to facilitate the manipulation and withdrawal of the punches when they are used.

3. In a case for dental instruments, the combination with a box or case having its front side open, a partition extending transversely across the box and dividing it into front and rear compartments, of a draw-plate held by the sides of the box adjacent the open front and constituting the top of the front compartment, said draw-plate having openings extending therethrough adapted for the swaging of tooth-crowns by manipulation of punches therewith, a rack located in the rear compartment and having means for holding the dental punches and die-plate, and a cover or lid hinged to the case and having a side hinged to itself which is adapted to close the open front side of the box when the lid is down.

In testimony whereof we affix our signatures in presence of two witnesses.

ADOLPH ADERER.
JULIUS ADERER.
HUGO ADERER.

Witnesses:
HENRY BEST.
C. V. EDWARDS.