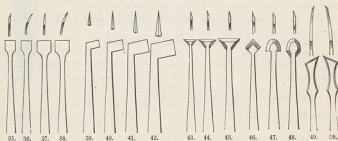
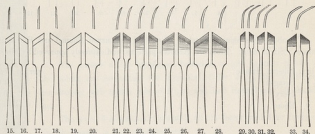
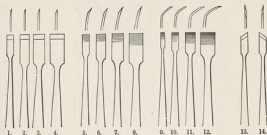


SS

## Chisels.

968

## S. S. WHITE'S SET OF CHISELS.



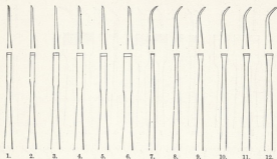
$\frac{1}{4}$  inch File-cut Handles, turned Shanks, Ball ends.

Per dozen . . . . .

\$7.20



### DR. F. ABBOTT'S SET OF CHISELS.



The above Cuts represent a set of 12 straight and curved Enamel and Excavating Chisels. Six of each. From Dr. Abbott's patterns, and expressly approved by him.

$\frac{1}{4}$ inch File-cut Handle	.	.	.	.	.	.	.	.	.	.	.	.	per set	\$7.20
$\frac{3}{16}$ " Octagon "	.	.	.	.	.	.	.	.	.	.	.	.	"	4.00
$\frac{1}{2}$ " Ivory "	.	.	.	.	.	.	.	.	.	.	.	.	"	20.00
$\frac{1}{2}$ " Ebony "	.	.	.	.	.	.	.	.	.	.	.	.	"	10.00

### DR. D. H. GOODWILLIE'S SET OF CHISELS AND EXCAVATORS.

Complete set of Chisels and Excavators, 40 Instruments.

8 $\frac{1}{4}$ inch File-cut Chisels	.	.	.	.	.	.	.	.	.	.	.	.	each	\$0.60
32 $\frac{1}{16}$ inch Excavators	.	.	.	.	.	.	.	.	.	.	.	.	per doz.	4.50
Set complete	.	.	.	.	.	.	.	.	.	.	.	.		16.80

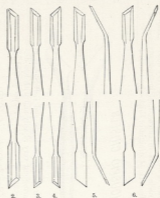
Also, similarly arranged for traveling Dentists:

Socket Bits, set of 25	.	.	.	.	.	.	.	.	.	.	.	.	per doz.	\$4.50
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SS

988

## DR. LOUIS JACK'S DOUBLE-END ENAMEL CHISELS.



The pattern of the handle, so formed as to give security in use, and the points, are exclusively the invention of Dr. Jack, the "double-end" constituting each tool a pair of Right and Left instruments for the same cut.

The set of 6 is designed to furnish all the forms needed for freely cutting the enamel in separating the teeth.

No. 5 is more particularly intended for cutting down the inner distal surfaces of the molars.

No. 6 is for the same purpose on the inner mesial surfaces of the same class of teeth.

In tempering, we make them as near to the hardness Dr. Jack prescribes as we judge possible or safe in work.

The immediate edge should be removed at an angle of seventy or eighty degrees after each dressing on the grinding stone.

Price, per set of 6 . . . . . \$12.00



## CAVITY CHISELS—SELECTED POINTS.



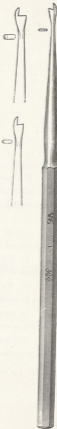

Our full-size Cut represents the shape and general size of our whole line of Blued Taper Handle Excavators. These are in stock of all the desirable forms. Blued Taper Cavity Chisels include the whole sets of Dr. Head's Excavators, Dr. Weatherbee's Excavators, Dr. Goodwillie's smaller Chisels, any of which may be ordered with these elegant handles; and a few special forms, 4 of which are shown in our Cuts. These are very desirable new shapes. We make three sizes of each. The term Cavity Chisels refers to thick-edged instruments formed suitably for excavating and cutting soft dentine, as distinguished from those straight or thick-edged instruments, which are only convenient for cutting enamel.

## DR. ARRINGTON'S HEAVY MOLAR AND BICUSPID CHISELS



Are especially adapted for opening and edging approximal cavities. Their form, with Right and Left Slopes, is such that they can be used to dress mesial and distal surfaces with a shearing cut very rapidly and with less discomfort to the patient than the separating file causes. Price,  $\frac{1}{2}$  inch File-cut . . . . . per pair \$1.50

## DR. A. M. HOLMES'S SHOULDERED CHISELS (See Appendix of 1878).

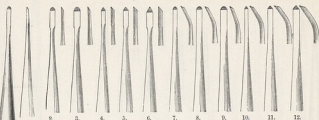


Are for cutting down enamel to open cavities; the small end forming a strong short Chisel, easily sharpened, while the shoulder stops it from entering to a dangerous depth. Rapid and safe work can be done with these. Price,  $\frac{3}{4}$  inch Octagon Handle, Blued . . . . . each 75 cents

Comprising about one dozen Points.

Blued Taper Handles . . . . . per doz. \$4.00

## DR. JACK'S PARABOLOID AND DR. FORBES'S GOUGE CHISELS.

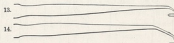


The accompanying Cuts represent the Chisels recommended on page 170 of the DENTAL COSMOS for April, 1871. Nos. 1, 2, 3, 7, 8, and 9 show the Forbes Gouge; and Nos. 4, 5, 6, 10, 11, and 12 illustrate Dr. Jack's Paraboloid Chisels, which are intended for opening fissures, cutting retaining-grooves in large cavities, and for enamel-cutting wherever applicable.

To fit them for cutting enamel easily, these Chisels are made very hard, which necessitates some care in their use. The angle of sharpening should not be acute.

We add below outline drawings, showing exact sizes and forms of two Excavators supplementary to this set of Chisels. Their use is so connected in practice with that of the Chisels, that we have decided this to be their natural place, and have numbered them 13 and 14. The Chisels, 1 to 12, are made with  $\frac{1}{4}$  inch File-cut Handles, Ball Ends, Bronzed. Nos. 13 and 14 are plain  $\frac{3}{8}$  inch Handles, Blued or Bronzed.

These last are extremely useful Excavators. With them every part of an approximal cavity can be reached to excise it by the direct cut. They have this great range of applicability in addition to their special use in grooving small cavities and thin edges preparatory to matrix fillings.



In addition to the above, we have a set of Paraboloid and Gouge Chisels, extra quality, or best, with two additional Points, making the set 14, independent of the supplementaries. All the foregoing are tempered extremely hard.

### PRICES.

Chisels, Nos. 1 to 12 . . . . .	per set	\$12.00
Nos. 13 and 14 . . . . .	each	.30
Best quality, $\frac{1}{4}$ inch Plain Octagon Handles, Blued, per set of 14 . . . . .		17.50

§§ DR. CHAS. R. BUTLER'S SET OF ENAMEL CHISELS. §§



The forms of these Chisels will explain and commend themselves to Dentists, who will see that they have distinctive and peculiar shapes.

These shapes must be examined in connection with the edges in order to a full understanding of the originality and nicety of adaptation of each instrument for its special and relative use.

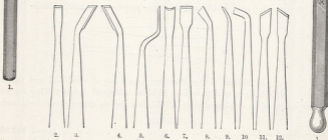
Dr. Butler describes them as intended "for separating back teeth for filling or preservation, by trimming palatal and proximal surfaces from the inside; the Sickle-shaped No. 3 being also used to scrape and finish surfaces before polishing."

"These Chisels should be held with the hand-grasp, with the thumb resting on some tooth as guard or fulcrum."

They are tempered very hard, made of the finest steel, with Polished Fire-gray Lacquered Handles. Crocus-polished Points.

Price, per set of 5 . . . . . \$2.00

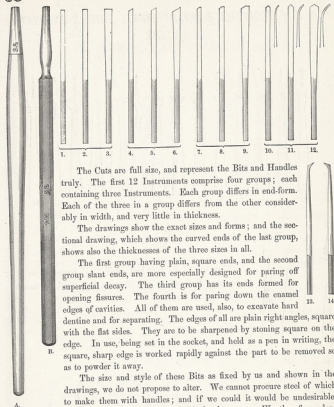
DR. E. T. DARBY'S SET OF CHISELS.



¼ inch File-cut Handles . . . . . each 60 cents.



## HARD BITS.



The Cuts are full size, and represent the Bits and Handles truly. The first 12 Instruments comprise four groups; each containing three Instruments. Each group differs in end-form. Each of the three in a group differs from the other considerably in width, and very little in thickness.

The drawings show the exact sizes and forms; and the sectional drawing, which shows the curved ends of the last group, shows also the thicknesses of the three sizes in all.

The first group having plain, square ends, and the second group slant ends, are more especially designed for paring off superficial decay. The third group has its ends formed for opening fissures. The fourth is for paring down the enamel edges of cavities. All of them are used, also, to excavate hard dentine and for separating. The edges of all are plain right angles, square with the flat sides. They are to be sharpened by stoning square on the edge. In use, being set in the socket, and held as a pen in writing, the square, sharp edge is worked rapidly against the part to be removed so as to powder it away.

The size and style of these Bits as fixed by us and shown in the drawings, we do not propose to alter. We cannot procure steel of which to make them with handles; and if we could it would be undesirable, as we cannot re-work or make over tools of this hard temper. We therefore adapt them to a Socket-handle (shown in illustration), and to meet the wants of those who, instead of changing, wish a handle for each Bit. The round part of the Bit is straight, not coned. The size will be maintained by us for these Bits and Sockets with exactness. Should they wear loose, they may be set with shellac.

Price for Bits . . . . .	each	\$0.30
" Octagon Steel Handles, B . . . . .	"	.20
" Ebony Handles, A . . . . .	"	1.00
" Ivory " A . . . . .	"	1.50

