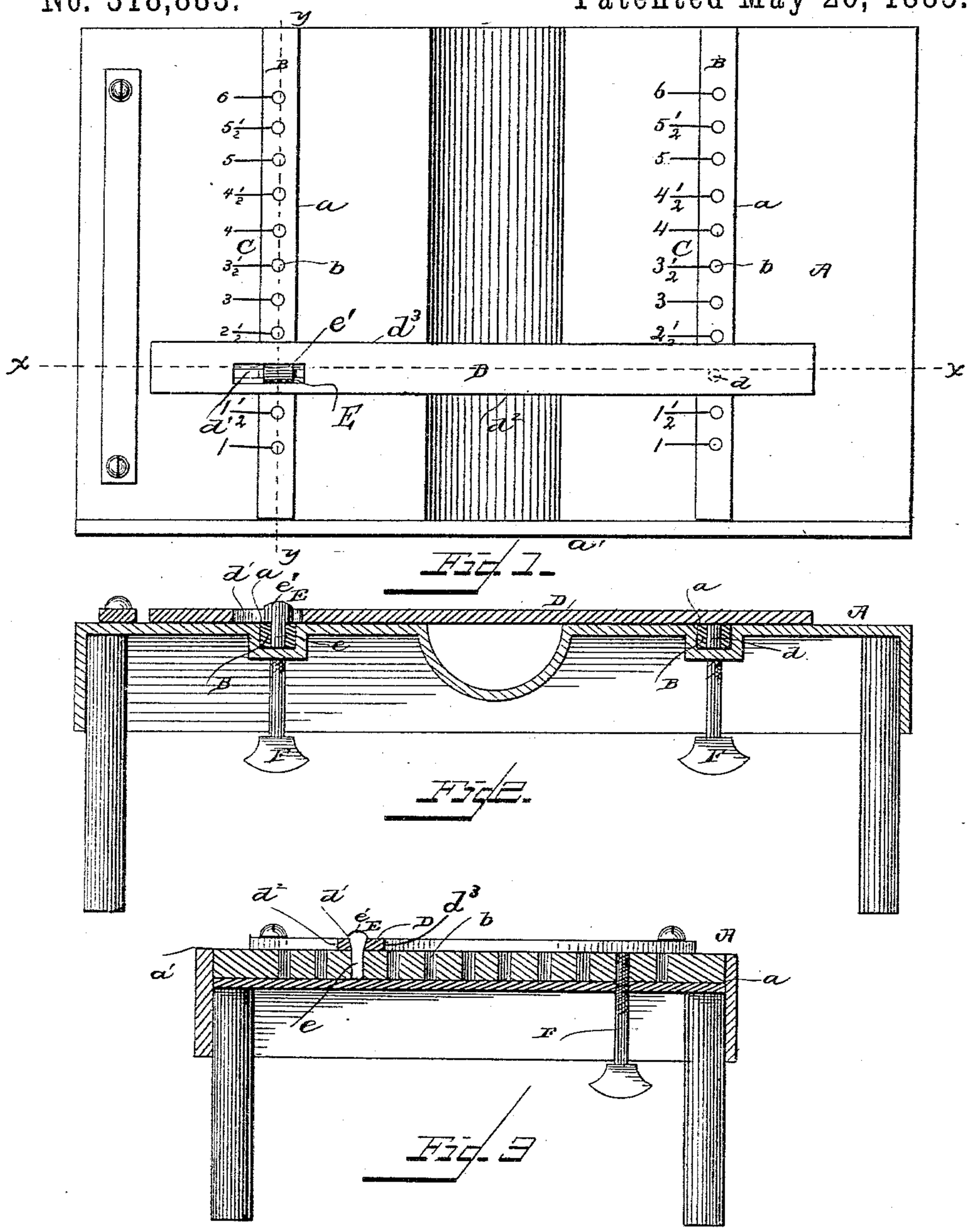
(No Model.)

C. H. DODGE.

GAGE FOR TINNERS' SHEAR TABLES.

No. 318,883. Patented May 26, 1885.



WITNESSES

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GAGE FOR TINNERS' SHEAR-TABLES.

SPECIFICATION forming part of Letters Patent No. 318,883, dated May 26, 1885.

Application filed March 24, 1885. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. DODGE, a citizen of the United States, residing at Augusta, in the county of Butler and State of Kansas, have invented a new and useful Improvement in Gages for Tinners' Shear-Tables, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in gages for tinners' shear-tables; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a top plan view of a device embodying my invention. Fig. 2 is a vertical sectional view of the same taken on the line *x x* of Fig. 1. Fig. 3 is a transverse sectional view taken on the line *y y* of Fig. 1.

A represents a shear-table, such as is generally used by tinners, and in the face of this table, near the ends thereof, are made transverse grooves *a*, in which work the slides B. These slides are each provided with a series of openings, *b*, which are equidistant apart, preferably half an inch from center to center, as indicated in the drawings. Scales C are inscribed on the table alongside the slides, and the openings in the slides are marked to correspond to the scales.

D represents a gage-bar, which is provided near one end, on its under side, with a projecting stud, *d*, that is of a size to exactly fit the openings in the slides. Near the opposite end of the gage-bar is made a slot, *d'*, which is slightly wider at its upper side than it is at its lower side, as shown.

E represents a stud, the shank *e* of which exactly fits either of the series of openings in the slides, and the head *e'* of which is slightly beveled on its sides so as to exactly fit in the slot *d'* of the gage-bar.

Through the under side of the table, beneath the grooves, pass set-screws F, the points of which can be caused to bear against the slides and secure them at any desired adjustment.

By means of the scales and the marked slides it will be readily understood that the gage-bar can be secured at any desired distance from the shear-edge *a'* of the table, and exactly parallel therewith, and thus enable the sheets of tin to be cut exactly square. By reason of the slot in the end of the gage-bar the bar is prevented from binding between the slides when being moved.

It will be seen that the slot and stud are in line with each other in the gage-bar, and at a distance of, say, one-fourth of an inch from one edge, d^2, of the bar, and at a distance of one-half an inch from the opposite edge, d^3, thereof. If the bar is secured to the slides with the edge d^2 toward the shear-edge of the table, and it be desired to move the gage-bar one-fourth of an inch nearer to said edge, this can be accomplished by raising the gage-bar from the slides and reversing it with reference to the shear-edge, so that the edge d^3 of the gage-bar will be presented thereto, and without the necessity of moving the slides, as will be readily understood.

A shear-table gage thus constructed is exceedingly cheap and simple, is easily operated, and is adapted for use in cutting tin-sheets with absolute accuracy.

Having thus described my invention, I claim—

1. The combination of the table having the shear-edge and the grooves with the slides that work in the grooves, the gage-bar adapted to be secured to the slides, and the set-screws for clamping the slides in the grooves, substantially as described.

2. The combination of the table having the shear-edge and the grooves with the slides provided with the series of spaced openings and working in the grooves, the scales on the table alongside the grooves, the gage-bar adapted to be secured to the slides, and the set-screws for clamping the slides in the grooves, substantially as described.

3. The combination of the table having the shear-edge, the grooves, and the scales alongside the grooves with the slides having the spaced openings and working in the grooves, the gage-bar having the stud and the slot, the headed stud, and the set-screws for clamping the slides in the grooves, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHARLES HENRY DODGE.

Witnesses:
M. C. BOYLE,
F. L. AYRES.