C. H. GRIFFIN.

Drafting Square for Garments.

No. 206,315. Patented July 23, 1878.

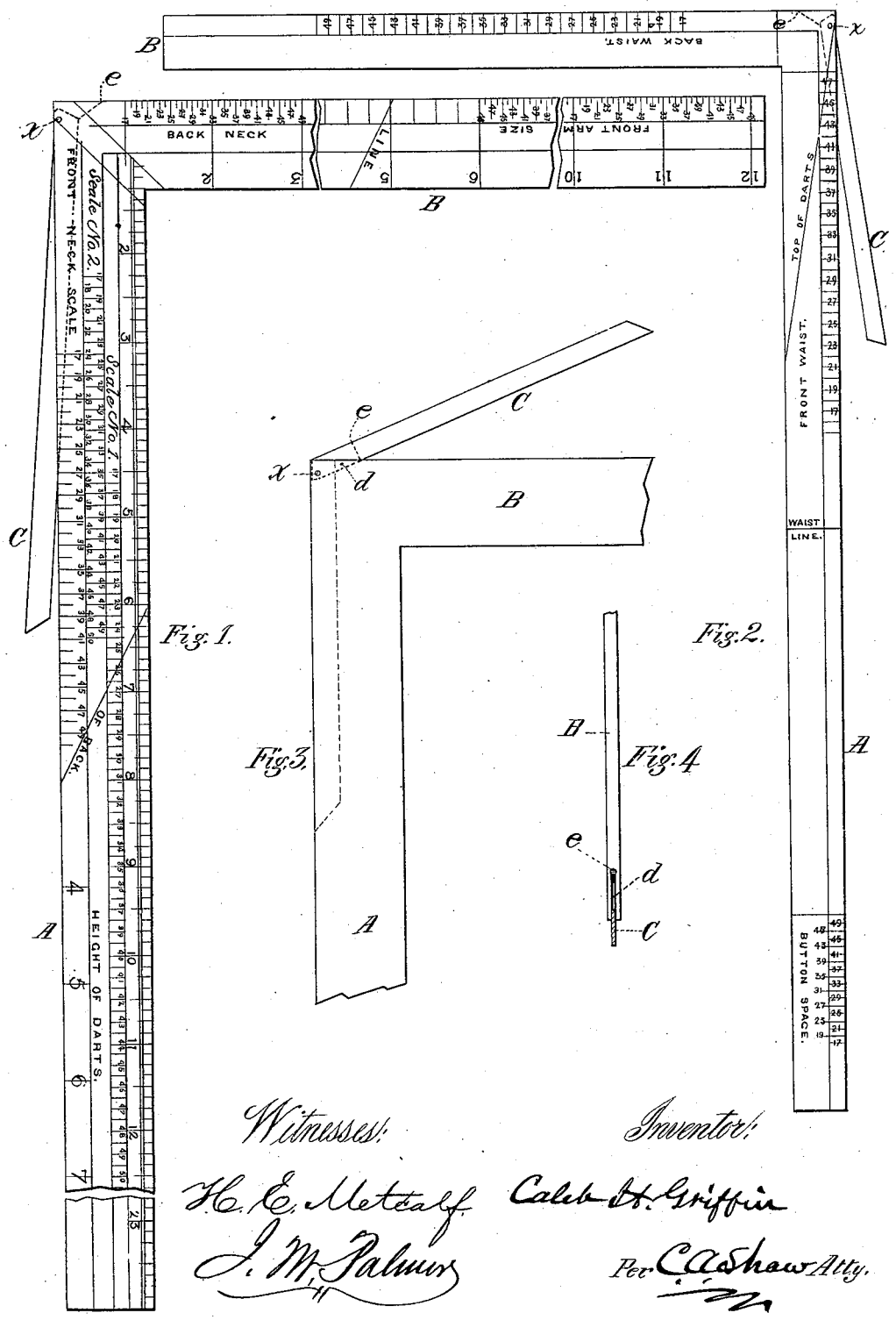

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:

H. E. Metcalf

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UNITED STATES PATENT OFFICE.

CALEB H. GRIFFIN, OF BOSTON, ASSIGNOR, BY MESNE ASSIGNMENTS, TO ELIZABETH ELLEN DURGIN, OF MALDEN, MASSACHUSETTS.

IMPROVEMENT IN DRAFTING-SQUARES FOR GARMENTS.

Specification forming part of Letters Patent No. **206,315**, dated July 23, 1878; application filed June 3, 1878.

To all whom it may concern:

Be it known that I, CALEB H. GRIFFIN, of Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Drafting-Squares for Ladies' Dresses and other Garments, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is an elevation showing one side of my improved square; Fig. 2, an elevation showing the opposite side (reduced;) and Figs. 3 and 4, sectional views.

Like letters of reference indicate corresponding parts in the different figures of the drawing.

My invention is designed as an improvement on the measuring apparatus and square shown in the three several Letters Patent of the United States numbered, respectively, 194,086, 195,925, and 195,926; and consists, first, in a square having a folding arm arranged in a novel manner; and, secondly, in a square provided with an inch-scale, preferably on its inner edge, and with two auxiliary scales, all as hereinafter more fully set forth and claimed, by which a more convenient and effective device of this character is produced than is now in ordinary use.

In the drawing, A represents the long arm, B the short arm, and C the folding arm, of the square. The folding arm is pivoted at *x* in a slot in the edge of the square, and is arranged to fold into the long arm A, as shown by the dotted lines in Fig. 3, when not in use. The slot is extended diagonally across the end of the short arm, as seen at *d*, forming a shoulder at *e*, on which the arm C rests when in position for use, as seen in Fig. 3.

The hinged or pivoted arm C of my present invention is designed to obviate the objections to the devices described and shown in the before-referred-to patents, the slot *d* being cut in such a manner that when the arm is thrown back against the stop *e* it will be in a proper position for obtaining line C, described and shown in Patent No. 195,925, after which it can be readily folded into the long arm A, as shown.

With the exception of the arm C, the only novel feature of my present invention consists in the two scales marked, respectively, "Scale No. 1" and "Scale No. 2." These scales are auxiliary to the inch-scale of the square in obtaining one-half the "slope of shoulder," and are used as follows: For instance, if the initial measurement for slope of shoulder is $4\frac{1}{2}$, find $4\frac{1}{2}$ inches on the inch-scale of the long arm of square. Under this find 17 in the auxiliary scale No. 1, which take for slope of shoulder, as shown in Patent No. 195,925. Now, to find, one-half of the slope of shoulder to obtain line C, find the corresponding number 17, in auxiliary scale No. 2, immediately over which $2\frac{1}{4}$ inches will be found on the inch-scale, which, it will be seen, is just one-half the slope.

It will be obvious that the auxiliary scales afford a ready and accurate means of dividing the inches and fractional parts of inches in the inch-scale, and thus indicating at a glance the correct measurement for one-half the slope of shoulder.

Having thus explained my invention, what I claim is—

1. The square A B, provided with the pivoted arm C, slot *d*, and shoulder *e*, arranged to operate substantially as and for the purpose set forth and specified.

2. The square A B, provided with an inch-scale and with the auxiliary scales Nos. 1 and 2, arranged to operate substantially as and for the purpose set forth and specified.

CALEB H. GRIFFIN.

Witnesses:
C. A. SHAW,
H. E. METCALF.