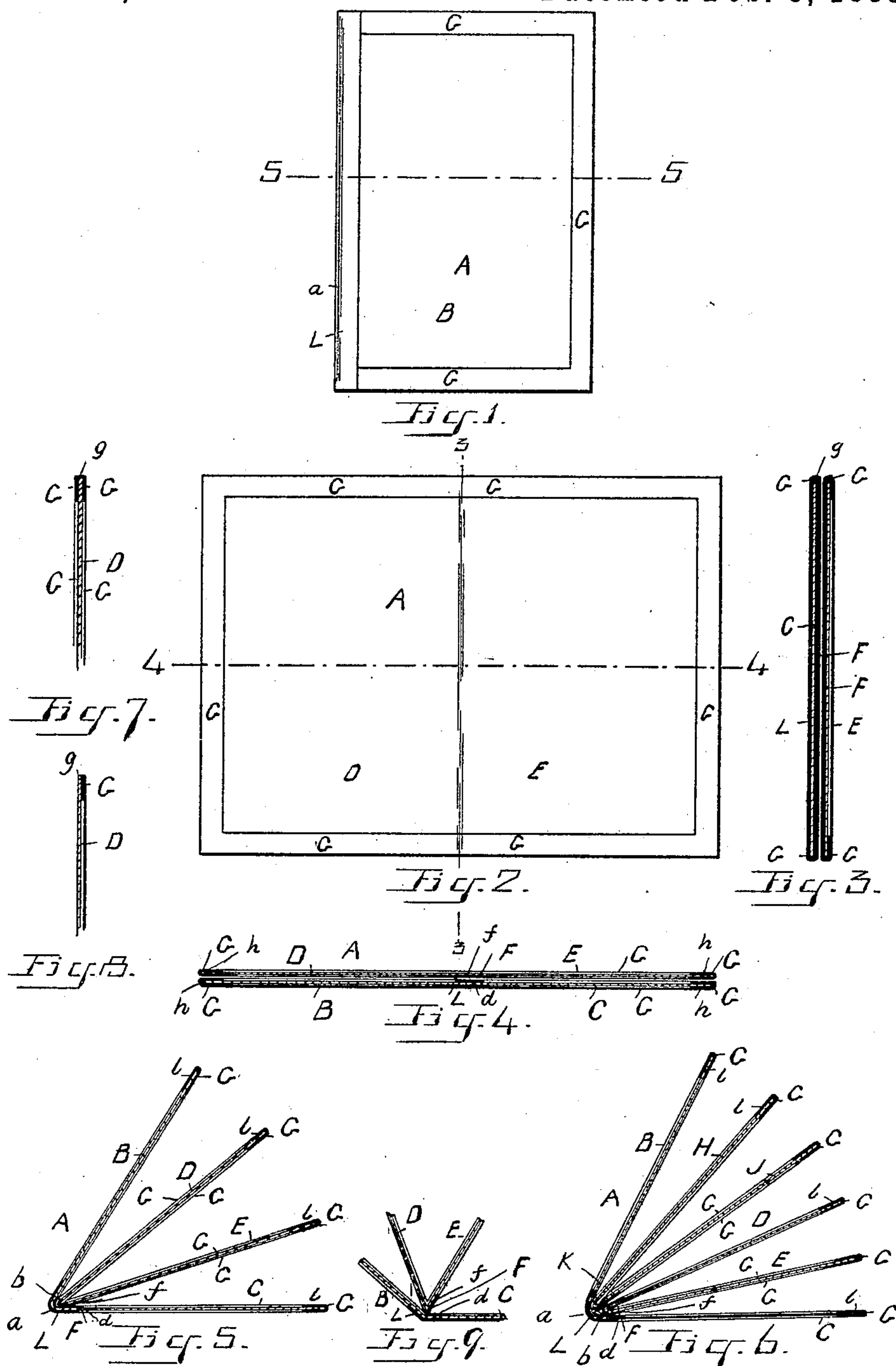


(Model.)

E. HARRIS.
BINDING SHEET MUSIC.

No. 397,360.

Patented Feb. 5, 1889.



Witnesses:
Percy Bryant.
Arthur D. Ford.

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per Elbridge Harris,
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UNITED STATES PATENT OFFICE.

ELBRIDGE HARRIS, OF BOSTON, MASSACHUSETTS.

BINDING SHEET-MUSIC.

SPECIFICATION forming part of Letters Patent No. 397,360, dated February 5, 1889.

Application filed July 12, 1886. Serial No. 207,799. (Model.)

To all whom it may concern:

Be it known that I, ELBRIDGE HARRIS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and
5 useful Improvements in Binding Sheet-Music, &c., of which the following is a full, clear, and exact description.

This invention has for its object the securing or binding together of the leaves of sheet-
10 music more particularly, although it is applicable as well to newspapers, pamphlets, books, &c.; and the invention consists of leaves of sheet-music, newspapers, pamphlets, books, &c., secured and bound together, all substan-
15 tially as hereinafter fully described, reference being had to the accompanying plate of drawings, in which—

Figure 1 represents in front view sheets of music secured together and having their edges
20 bound in accordance with this invention and as closed. Fig. 2 is a front view of the same opened; Fig. 3, a vertical cross-section on line 3 3, Fig. 2; Fig. 4, a horizontal cross-section on line 4 4, Fig. 2; Fig. 5, a cross-section on
25 line 5 5, Fig. 1, but with the leaves opened somewhat; Fig. 6, a cross-section similar to Fig. 5, but showing six leaves. Figs. 7, 8, and 9 are detail cross-sections, to be hereinafter referred to.

30 In the drawings, A represents sheets of music, made of paper or other suitable material, all as usual, and formed in Figs. 1 to 5, both inclusive, of four leaves, B, C, D, and E. The leaves B C represent the outside leaves
35 or covers, and are made by folding a sheet of paper, &c., along its middle, as at *a*, and the leaves D E (the inner leaves) are formed by folding a sheet of paper, &c., at its middle, as at *b*, all as usual in sheets of music, and needing
40 no particular description herein. The leaves D E are placed between the leaves B C, and are secured to the leaf C by a strip, F, of cloth or other suitable material, which strip of cloth, &c., is folded longitudinally along the middle
45 and secured by one of its folds, *d*, to the side of the sheet C, and by its other fold, *f*, to the sheet E, from top to bottom of each sheet, by paste, glue, or other suitable adhesive material, as shown more particularly in Fig. 5 in
50 cross-section.

G G are strips of cloth or other suitable material, which are folded longitudinally along their central line and placed over the top, bottom, and side or front edges, *g*, *h*, and
55 *l*, respectively, of the several leaves, and secured thereto, to the sides of each leaf, by paste, glue, or other suitable adhesive material. The strips at the top and bottom edges of the leaves can extend across the fold of the
60 leaves, if desired, thereby strengthening such fold, as is obvious.

In lieu of folding each strip G over the edge of the leaf it can be in two strips, one on each side of the leaf, as shown in detail in cross-
65 section in Fig. 7, which represents a leaf in detail section having a strip, G, on each side of the leaf at the edge, but not extending around the edge, and in lieu of two strips, as shown in Fig. 7, only one need be used and
70 secured to one side of the leaf, as shown in Fig. 8 in detail cross-section. It is preferable, however, to have such strip folded over the edge of the leaf and secured as described.

In Fig. 6 are shown in cross-section four leaves besides the outside or cover leaves, B
75 C, the leaves H J being secured to the leaf D by a strip, K, of cloth or other suitable flexible material. In the same way the leaves D E are secured to the leaf C, showing the manner of securing more leaves, when desired, in ac-
80 cordance with this invention.

The leaves H J can be secured by the strip K to the leaf B in lieu of to the leaf D. This manner of binding and securing together of
85 leaves of sheet-music is very desirable and has many advantages. It is simple, neat, can be easily and conveniently applied, does not interfere with the use of the music-sheets, as the leaves can be opened out flat, as shown in
90 cross-section in Fig. 4, when in use, and can be as easily closed or folded and quickly turned, and, all being secured together, there is no danger of one or the other dropping from the music-desk, as is frequently the case when
95 the leaves are loose and separate, as heretofore, and by binding the edges as described they are protected and strengthened, and will not easily tear or become worn from use in turning or handling the leaves.

In lieu of securing the strips by paste or 100

other adhesive material, they can be secured by stitches or in other ways; but an adhesive material is preferable.

5 This invention, although more particularly described in connection with sheets of music, is applicable as well to newspapers, pamphlets, magazines, books, &c.

10 If desired, the various strips need not extend the whole length or width of the leaves, as shown, but can be short and only at intervals.

L is a strip of cloth or other suitable material secured to the fold at the back of the covers or leaves B C to strengthen such fold.

15 Having thus described my invention, what I claim is—

20 1. The combination, with folded leaves and a leaf of sheet-music or other sheet material disposed between the folded leaves, of a longitudinally-folded strip of suitable flexible sheet material secured by one fold to the inside and at the fold of one of said folded

leaves, and by the other fold of said strip to the intermediate leaf, by paste or other suitable adhesive material, for the purpose specified. 25

2. The combination, with two sets of folded leaves of sheet-music or other sheet material, of a longitudinally-folded strip of suitable flexible sheet material secured to said leaves 30 at their folded edges by paste or other suitable adhesive material, one set of such folded leaves within the other set of folded leaves, and each set of folded leaves secured to a separate fold of the strip, for the purpose specified. 35

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ELBRIDGE HARRIS.

Witnesses:

EDWIN W. BROWN,
PERCY BRYANT.