

(No Model.)

O. A. KIMBALL & J. GRAMER.
ART OF MAKING OPEN WORK PANELS FOR PIANOS.

No. 533,850.

Patented Feb. 5, 1895.

FIG. 1.

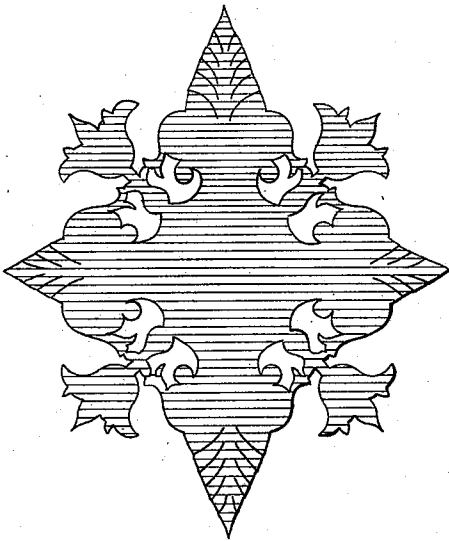


FIG. 2.

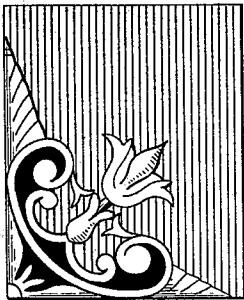
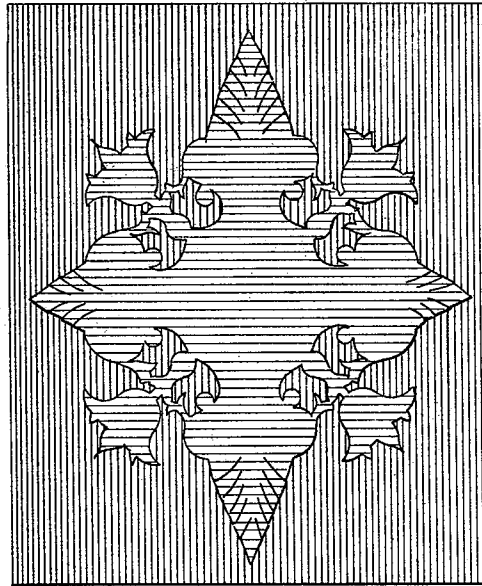


FIG. 4.

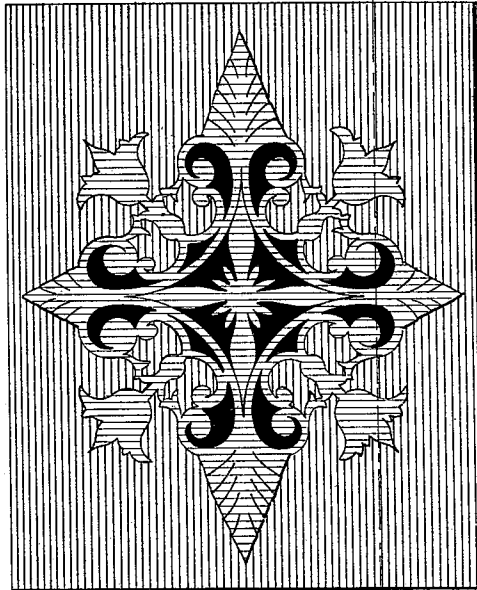


FIG. 3.



FIG. 5.

WITNESSES.

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UNITED STATES PATENT OFFICE.

ORRIN A. KIMBALL AND JOSEPH GRAMER, OF BOSTON, MASSACHUSETTS.

ART OF MAKING OPEN-WORK PANELS FOR PIANOS.

SPECIFICATION forming part of Letters Patent No. 533,850, dated February 5, 1895.

Application filed June 14, 1894. Serial No. 514,626. (No model.)

To all whom it may concern:

Be it known that we, ORRIN A. KIMBALL and JOSEPH GRAMER, both of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in the Art of Making Open-Work Panels for Pianos and the Like, of which the following is a specification, reference being had to the accompanying drawings, in which—
10 Figure 1, is a plan view of the upper panel. Fig. 2, is a plan view of the upper panel secured upon the under panel, forming a compound panel. Fig. 3 is a plan view of the compound panel with the open work pattern (shown in black) sawed in it. Fig. 4 shows
15 a portion of the panel completed by carving. Fig. 5, is a section upon the section line 5—5 shown in Fig. 3.

Our invention consists in combining two or
20 more panels of wood or other suitable material in such a manner as to produce a compound panel bearing a pattern partly in relief and partly open work. By our method panels may be produced by a jig saw, having
25 the effect of a carved pattern as well as mere open work.

Our method of producing such panels is as follows: Several blank panels are secured together by temporary fastenings and a desired
30 pattern is jig sawed in them; either an irregu-

lar outline being given to the blanks or an irregular outline with open work or merely open work. The blanks so prepared are then separated and one of them is secured upon the surface of a second blank, forming a compound blank, the pattern of the superimposed blank standing in relief upon the surface of the lower blank. A second open work pattern is then jig-sawed in this compound blank, the design of the compound blank after the open work jig sawing being partly in relief and partly in open work. This compound blank is then finished in the ordinary way the relief work being carved and finished by hand if desired.

What we claim as our invention is—

The art of producing panels by securing a blank with a jig sawed pattern, upon a second blank, thereby producing a compound blank with a portion of the pattern in relief, and jig sawing an open work pattern in the compound blank, thereby completing the pattern of the panel, all substantially as described.

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Witnesses:

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