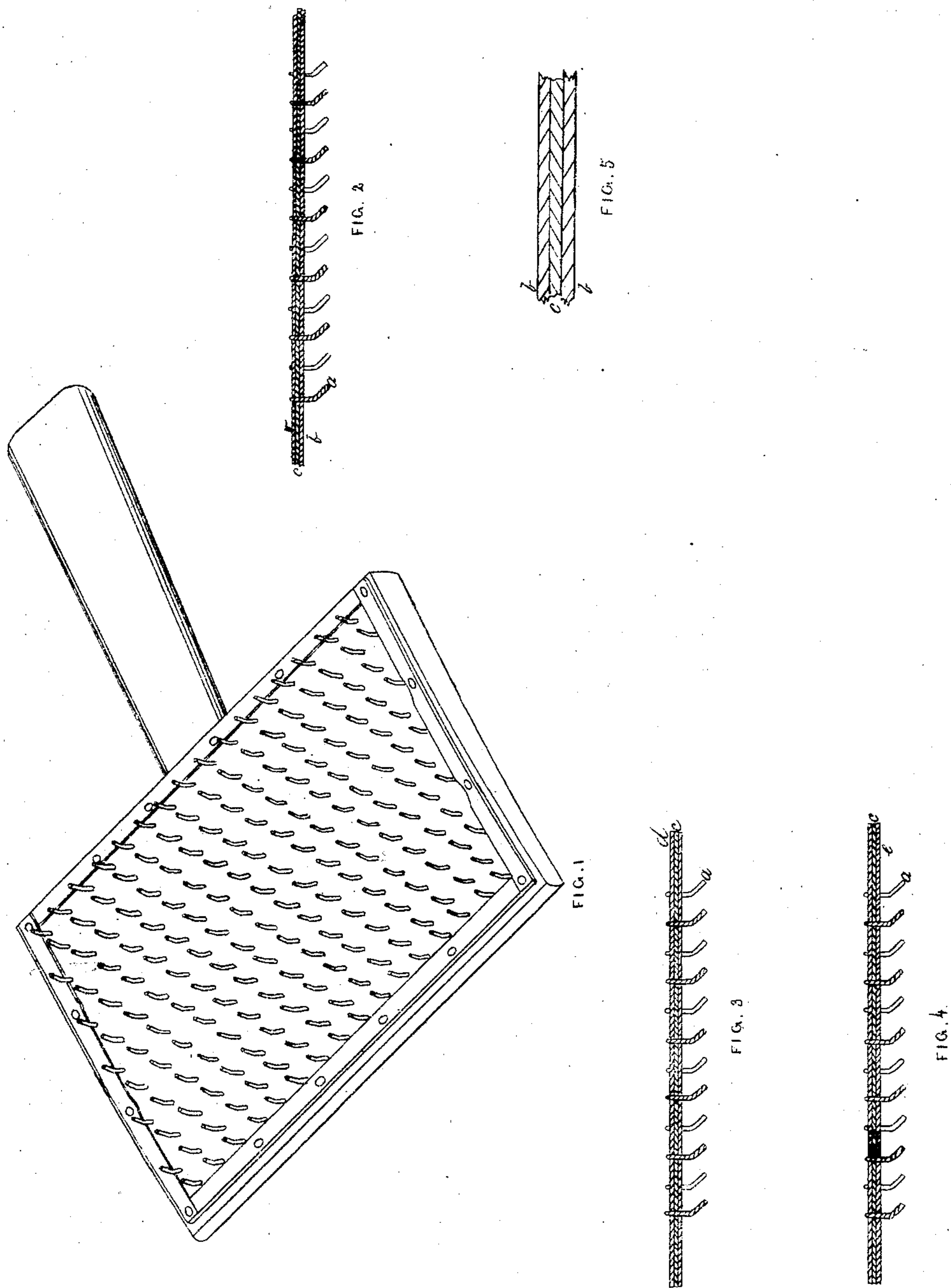


E. L. Sprague  
Making Hand & other Cards.  
N<sup>o</sup> 76111 Patented Mar. 31, 1868.



WITNESSES:

Thos H. Dodge  
D L Miller

INVENTOR:

E. L. Sprague

# United States Patent Office.

E. L. SPRAGUE, OF LEICESTER, MASSACHUSETTS, ASSIGNOR TO HIMSELF  
AND HENRY EDDY, OF SAME PLACE.

*Letters Patent No. 76,111, dated March 31, 1868.*

## IMPROVEMENT IN MAKING HAND AND OTHER CARDS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### KNOW ALL MEN BY THESE PRESENTS:

That I, E. L. SPRAGUE, of Leicester, in the county of Worcester, and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Card-Sheets for Making Hand and other Cards; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a hand-card, the teeth of which are set in a card-sheet made according to my invention.

Figure 2 represents a section of the sheet on a line with the bends of the teeth.

Figures 3 and 4 represent similar sections of a sheet made somewhat differently, but still embracing my invention; and

Figure 5 represents, upon an enlarged scale, a section of a card-sheet made like the sheet shown in figs. 1 and 2.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

In the drawings, a hand-card, lettered A, is shown, the teeth *a* of which are set in a card-sheet made according to my invention. Fig. 2 represents a section of the card-sheet shown in fig. 1. It is composed of three thicknesses of veneers, or leaves of wood, *b*, *b*, and *c*, glued or cemented together in such a manner that the grain of the wood in the two outer veneers runs in the direction of the bends of the teeth *a*, while the grain of the wood of the other veneer, *c*, runs at right angles to the grains of the two outer veneers, as more fully shown and illustrated in fig. 5 of the accompanying drawings, which represents upon an enlarged scale a section of a card-sheet made according to the plan shown in figs. 1 and 2. Modifications of my invention are shown in figs. 3 and 4. These sheets are composed of two strips or veneers of wood, and one of leather.

By making the card-sheets of veneers of wood, or partly of leather, as shown and described, the card-sheet can be made much cheaper, while at the same time it gives a stronger and more firm support to the teeth *a*. The relative arrangement of the wooden veneers *b b c*, as above described, prevents all splitting of the veneers, either during the operation of setting the teeth or while the card is in use.

In some cases manufacturers may prefer to have the sheet made of wood and leather, and in which case one or more veneers may be used and arranged in respect to the leather part or parts to suit the taste of the manufacturer. Two ways of combining the wooden veneers with leather have been shown, which are sufficient to illustrate the modified forms in which my invention can be carried out. In fig. 3, the back strip or veneer *d* is of leather, while in fig. 4 the front strip or veneer *e* is leather.

Having described my improved card-sheet, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. A card-sheet for supporting the teeth *a* in hand and other cards made of three strips or veneers of wood, substantially as and for the purposes set forth.

2. A card-sheet made of one or more strips or veneers of wood, and one or more thicknesses of leather.

3. A card-sheet made of two or more veneers or strips of wood, so arranged and glued or cemented together as to have the grain of the wood of the separate veneers cross each other at right angles, or nearly so, for the purposes stated.

E. L. SPRAGUE.

Witnesses:

THOS. H. DODGE,

D. L. MILLER.