S. A. Snyder,

Chair Bottom.

No. 105,993. Patented Aug. 2. 1870.

Fig: 1

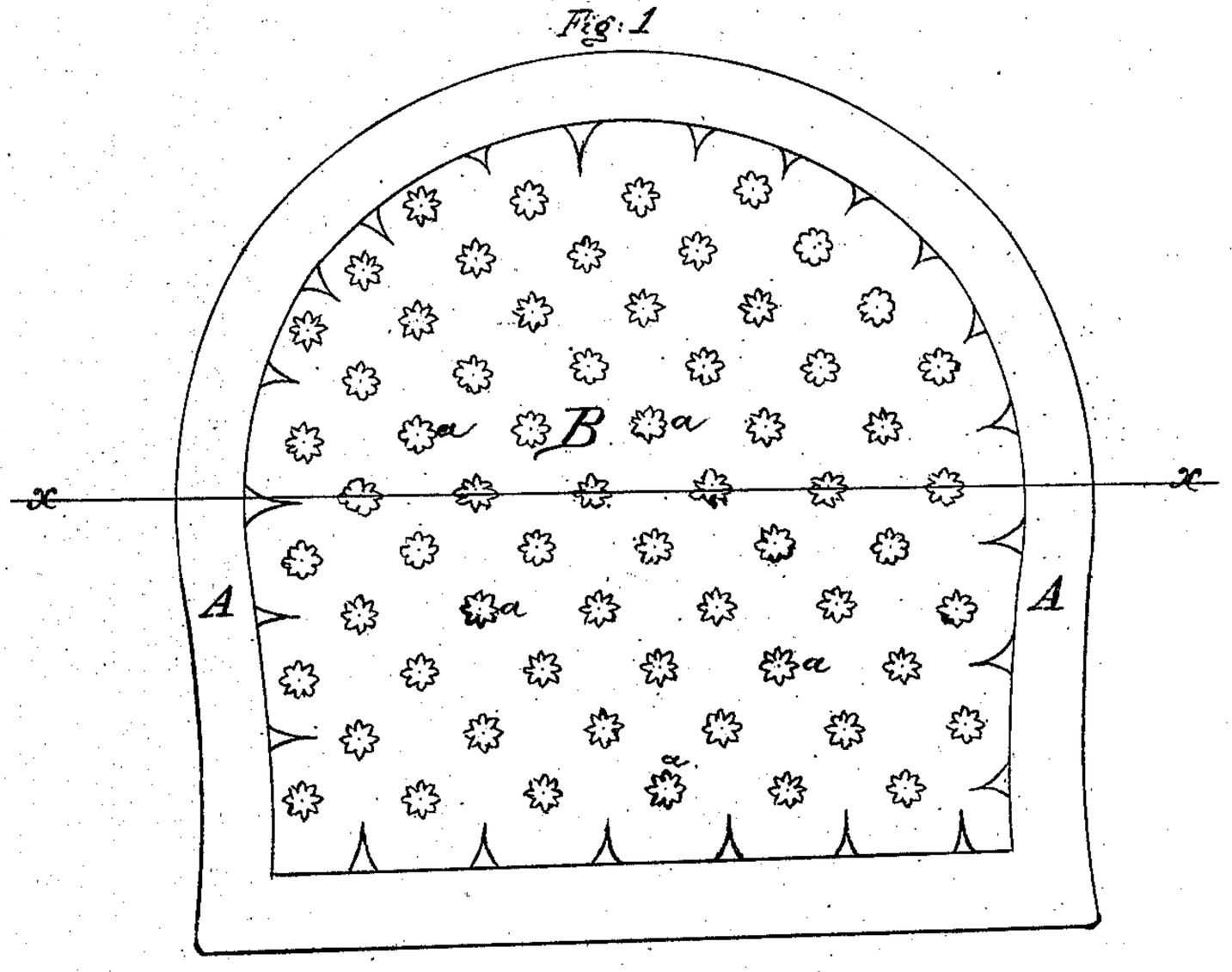
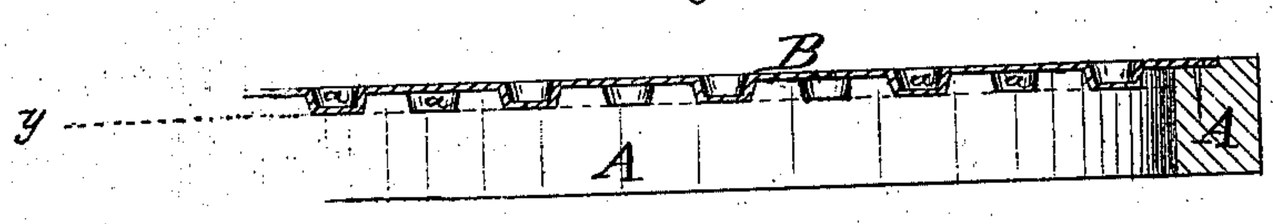


Fig. 2.



Witnesses:

James L. Norris.

W. J. Payton.

Inventor:

S. A. Snyder

per J. Fraser & Co. attys

United States Patent Office.

SILAS ALLEN SNYDER, OF CLARENDON, NEW YORK.

Letters Patent No. 105,993, *dated August* 2, 1870.

IMPROVED METALLIC CHAIR-SEAT.

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

To all whom it may concern:

Be it known that I, SILAS ALLEN SNYDER, of Clarendon, in the county of Orleans and State of New York, have invented certain Improvements in Metallic Chair-Seats or Bottoms, of which the following is a specification.

My invention relates to a new mode of constructing metallic seats, and consists in forming the seat of sheet metal, having portions of its surface stamped or sunken, forming depressions below the general surface, in the manner and for the purposes hereinafter named.

Figure 1 represents my improved chair-seat in plan view, and

Figure 2 is an enlarged section of a portion of the seat and frame, on the line *x x* of fig. 1.

A is the ordinary frame, of wood, and

B, the seat, formed of suitable sheet metal, having the depressed portions *a a a* stamped or otherwise impressed below the general surface, and sunk to a uniform depth, as indicated by the dotted line *y*, fig. 2.

These sunken parts may be of any form or figure desired, as star-shaped, octagon, or other geometrical figures, and are preferably made of ornamental form, thus conserving taste and usefulness at the same time.

This seat may be attached to the chair in any desirable or convenient manner, and may consist of almost any sheet metal that is desired, as brass, zinc, copper, tin, or iron, the construction admitting of the metal being used in very light and thin sheets, on account of the rigidity produced by the two planes formed by the upper or unstamped metal and the bottom surface of the sunk figures, as is shown in fig. 2.

I am aware that metal has been used for seats of chairs, benches, &c.; and that chairs, &c., have been constructed entirely of metal; and that patents have been granted for seats of grooved metal, and of corrugated sheet metal, and of woven wire, or wire-cloth, or netting, and also of perforated sheet metal; and also that metallic strips or ribbons have been woven or interlaced like basket-work for a like purpose.

The objection made to seats of plain metal is, their smoothness, which seats become so polished by use as to become inconveniently slippery and uncomfortable, as well as unsightly.

The corrugated, perforated, slatted, or woven wire or ribbon surfaces are even more objectionable from the sharp and rough edges formed by punching or cutting the metal, rendering them uncomfortable to sit on, and subjecting to severe wear and abrasion the clothes of those using them.

I obviate these insuperable objections by my method of forming seats of sheet metal, with figures or portions depressed, as shown, below the surface, without puncturing entirely through. This prevents all slipperyness, and has an eminently pleasing effect to the eye. It also gives sufficient unevenness of surface to secure a stable seat, and renders the metal more rigid, thereby making a stronger seat, without leaving sharp, rough, or uneven edges, as is the case when the metal is punched, perforated, or cut in any manner, while I secure thereby an important advantage, in that the depressed portions may be painted or japanned of a color that forms an agreeable contrast to that of the metal used, or may be coated with flock, to imitate cloth or velvet, and these portions, from not being exposed to friction or wear, remain uninjured for a long time, and, as the general surface, which may be left unpainted, is kept bright by use, a pleasing and desirable effect is thus obtained, in a simple manner, and at a small cost. This metal, gilt or silvered, would also make a beautiful seat.

I further propose, for some purposes, as for a better class of chairs, to fill the depressions with some composition which will be measurably elastic, as India rubber, rubber sponge, or moss rubber, thereby giving a degree of softness resembling a cushioned or upholstered seat.

I claim—

As a new article of manufacture, a chair-seat having parts or figures *in intaglio* impressed therein, substantially as and for the purposes set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

SILAS ALLEN SNYDER.

Witnesses:

J. R. DRAKE,

C. N. WOODWARD.