

F. Carre,

Chair Bottom,

N^o 54,828,

Patented May 15, 1866.

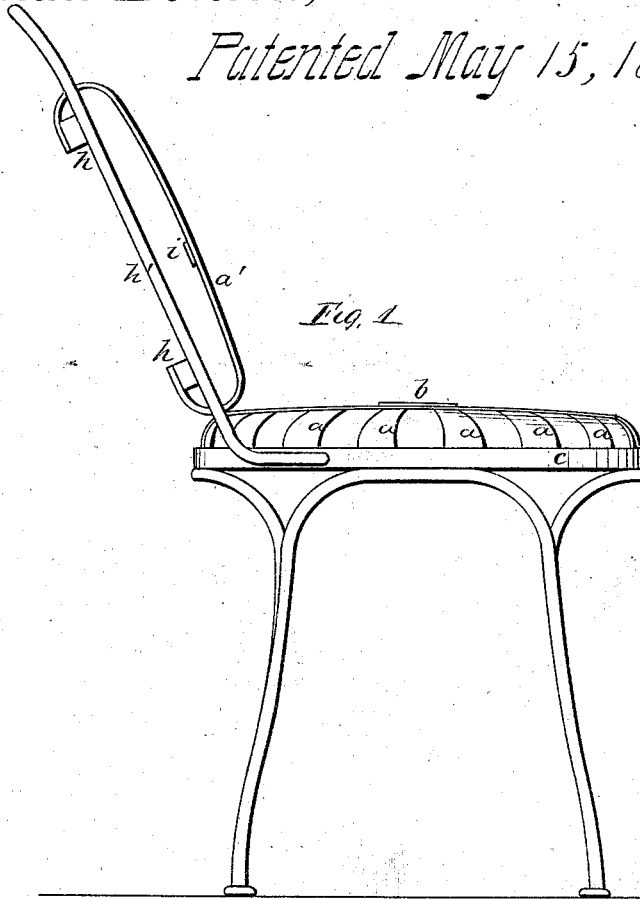


Fig. 1.

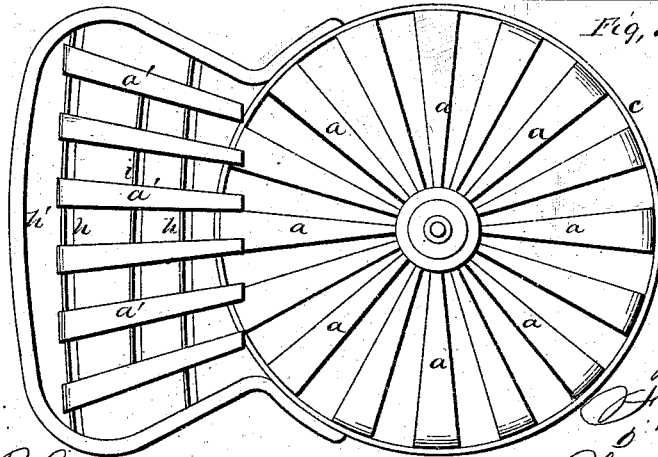


Fig. 2.

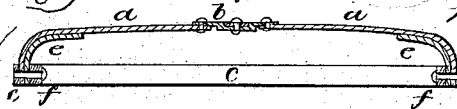
Witnesses,

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Fig. 3.



UNITED STATES PATENT OFFICE.

FRANÇOIS CARRÉ, OF PARIS, FRANCE.

IMPROVED SEAT AND BACK FOR CHAIRS.

Specification forming part of Letters Patent No. 54,828, dated May 15, 1866.

To all whom it may concern:

Be it known that I, FRANÇOIS CARRÉ, of Paris, in the Empire of France, have invented a new and useful Improvement in the Manufacture of Seats and Backs of Chairs, Stools, Settees, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side elevation of this invention. Fig. 2 is a plan or top view of the same. Fig. 3 is a vertical section of the same.

Similar letters of reference indicate like parts.

This invention consists in the employment or use of curved strips of sheet-steel in the manufacture of seats and backs of chairs, stools, settees, &c., the strips which form the seat being fastened at their outer ends to a frame of suitable form and material, and at their inner ends to a central disk, and the strips which form the back being curved outward at top and bottom and fastened to suitable cross-bars extending across the frame of the back. The strips of the seat are strengthened by secondary strips, which are fastened to the frame and to the outer ends of the main strips, and by these means a seat and back is obtained which is strong, durable, and very convenient.

a a represent a series of tapering strips cut out of sheet-steel and secured with their inner ends to a central disk, *b*, from which the same radiates toward the metal frame *c*. Said strips are curved, as shown in Figs. 1 and 3 of the drawings, and the frame *c* is round, oval, or of any convenient form or shape, according to the article of furniture to be made.

One rivet is sufficient at the inner and one at the outer end of each strip, and the rivets at the outer ends also serve to secure the counter-strips *e* and the brackets *f* to the frame *c*.

The counter-strips *e* are cut out of sheet-steel, and curved to correspond to the outer ends of the main strips *a*, and they are fastened under the same, as clearly shown in Fig. 3 of the drawings, so that the same support and strengthen the main strips and prevent them from sagging down.

The object of the bracket *f* is to prevent the heads of the rivets from working through the thin metal plates.

The strips or springs *a'*, which compose the back of one of my chairs, are curved out at both ends and fastened to the horizontal rods *h*, which extend across the frame *h'* of the back. This frame consists simply of a rod of iron bent in the proper form and secured to the frame *c*, as shown.

In order to steady the springs *a'*, they may be connected by a cross-bar, *i*, consisting of thin elastic strips of sheet-steel or other suitable material.

By these means a back is formed which readily accommodates itself to the body of the person sitting on the chair, and which is durable, easily constructed, light, and very convenient.

It will be observed that my chair seat and back is materially different from metal seats and backs as heretofore made. Common sheet-iron seats, either solid or open, have little if any elasticity. They are hard, clumsy, and inconvenient, and the same may be said of metal seats made of wire braided in imitation to cane seats. Metal seats have also been made of spiral springs, and they have at least the advantage of being flexible; but such seats are liable to sag down in a short time, whereby they are rendered inconvenient and useless.

My seats and backs combine strength and durability with neatness and convenience, and they are applicable to articles of any description whatever which serve for seats.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The radiating strips *a*, of sheet-steel or other suitable material, in combination with the central disk, *b*, and frame *c*, constructed and operating substantially as and for the purpose described.

2. The secondary supporting-strips *e*, in combination with the radiating strips *a* and central disk, *b*, constructed and operating substantially as and for the purpose set forth.

3. The back of a chair or other similar article, composed of C-shaped strips *a'*, of sheet metal or other suitable material, in combination with horizontal rods *h'* and frame *h'*, constructed and operating substantially as and for the purpose described.

CARRÉ.

Witnesses:

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C. V. MOT.