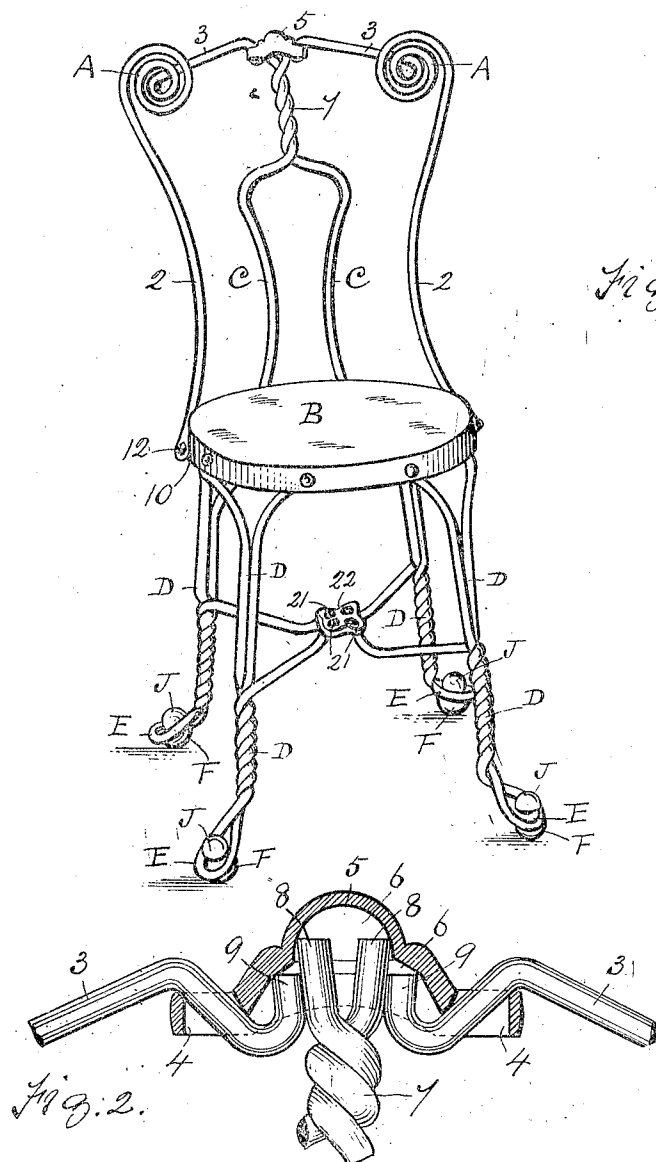


No. 858,389.

PATENTED JULY 2, 1907.

E. G. HESS.
CHAIR.

APPLICATION FILED MAY 22, 1906.



Witnesses.

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UNITED STATES PATENT OFFICE.

EMIL G. HESS, OF BUFFALO, NEW YORK.

CHAIR.

No. 858,389.

Specification of Letters Patent.

Patented July 2, 1907.

Application filed May 22, 1906. Serial No. 318,114.

To all whom it may concern:

Be it known that I, EMIL G. HESS, a subject of the King of Great Britain, and residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Chairs, of which the following is a specification.

My invention relates to improvements in chairs in which the upper and outer parts of the back of the chair are of steel wire spring scrolls, the inner ends of the scrolls extend toward each other and hooked into a central tie-cap, and the outer ends of the scrolls extend downward in suitable curved form and are fastened to the sides of the chair seat. The central part of the chair back comprises two metallic pieces twisted together at the upper part and the ends thereof inserted into the central tie-cap, and the middle part widened out and suitably curved and the ends fastened to the chair seat, in a similar manner as the lower extended ends of the scrolls referred to.

The objects of my inventions are, first, to provide a chair back, which shall be very strong, light, of chaste design and durable; second, to provide a chair back that has an inherent spring resiliency that is pleasant to a person's form, without detracting from the stability of the chair back.

I attain these objects by the mechanism illustrated in the accompanying drawing in which:—

Figure 1 is a perspective elevation of a chair embodying my invention. Fig. 2 is an enlarged detail sectional elevation of the upper central tie-cap of the chair back, showing the inner end parts of the spring scrolls and the upper ends of the twisted and curved spring back part inserted in position in the tie-cap.

Similar letters refer to similar parts throughout the several views.

In the drawing, the metallic spring wire scrolls of the back of the chair, are indicated by A; and the outer end parts 2 of the scrolls extend downward and are secured to the sides of the seat B, of the chair. The inner ends or rods 3 of the scrolls A, extend toward each other and pass through the upper part of the holes 4, in the tie-cap 5, and upwards into the upper extending socket 6 of the cap, which together with the holes 4, hold the ends rigidly therein. C, are the back spring wire rods twisted together as at 7, and the upper ends 8, of said rods are held in the socket 6 of the cap 5 by the ends 9 of the rods 3, and by the extent of the socket. It will be noticed that the ends 8 of the twisted part 7, which are in the socket, are of greater distance apart than the lower part of said ends, which are in proximity to the entrance of the socket, in order that the ends of the twisted part may be held securely in position by the rigid contact of the ends 9, therewith. The back steel wire rods C, widen out from the twisted part 7, and extend downward in curved form and are securely fastened to the seat B, in a similar manner as the outer and lower ex-

tended ends 2 of the scrolls. The four lower ends of the back of the chair, referred to, are concaved at 10, to conform to the convex sides of the seat B, and fit to said sides, and are secured thereto by means of bolts or screws, 12.

The front side of the tie-cap may be straight or slightly concaved to fit the form of the person sitting on the chair, and the ends 8 and 9 of the rods in the socket of the cap are hidden from view, as in Fig. 1 of the drawings.

The legs D of the chair are of spring steel wire, curved and twisted, as shown in Fig. 1 of the drawing, and the feet E, of the legs are formed and outwardly curved in such a manner to form central openings in the feet 13. F, are stationary rubber tips secured to the under side of the feet E, by means of a nut J. The upper end parts of the legs D, of the chair, branch apart and are secured to the inner side of the seat B. The upper end parts 21, of the twisted part of the legs verge to the central part of the chair and the ends 21, pass through holes in the plate 22 and from the under side of the plate and fasten thereto. This particular feature of the ends 21 and the plate 22 I do not claim.

What I claim as my invention and desire to secure by Letters Patent, is:—

1. In a chair, a seat, spring wire rods secured to the sides of the seat and extending upward and formed into spring scrolls, the inner ends of the scrolls extending toward each other, a tie-cap to receive and secure said ends; steel wire rods apart and secured to the rear part of the seat and extending upward and twisted together, and held in the cap, by contact with the inner ends of the scrolls.

2. In a chair, a seat, upper and outer resilient spring scrolls, the outer ends of the scrolls extending downward and secured to the sides of the seat, and the inner ends of the scrolls extending toward each other, a central tie-cap, said inner ends secured in the cap, and a spring wire back partially twisted together and the upper ends secured in said cap, and the lower ends extending downward and apart and secured to the back part of the seat.

3. A chair comprising a seat, and a back having an upper tie cap which is provided on opposite sides with openings and a socket between said openings, and wires fastened at their lower ends to said seat and provided at their upper ends with hooks which engage with their bases or necks in said openings and with their bills in said socket, substantially as set forth.

4. A chair comprising a seat, and a back having an upper tie cap provided centrally with a downwardly opening socket and openings at opposite ends, and two wires, each secured at its lower end to said seat and provided at its upper end with an upwardly turned hook which is arranged with its base in one of the openings of said cap and engages its bill with the adjacent side of the socket in the cap.

5. A chair comprising a seat, a back having an upper tie cap provided at opposite ends with openings and between said openings with a socket, side wire members each secured at its lower end to said seat and provided at its upper end with a hook which engages with its base or neck in one of said openings and with its bill against the adjacent side of said socket, and a central wire member secured at its lower end to said seat while its upper end is

arranged in said socket of the cap between the hooks engaging therewith, substantially as set forth.

6. A chair comprising a seat, and a back having a tie cap provided centrally with a downwardly opening socket and openings at its opposite ends, said parts each consisting of a wire secured at its lower end to said seat and provided at its upper end with an upwardly turned hook which is arranged with its base in one opening of the tie cap and engages its bill with the adjacent side of the
10 socket thereof, and a central part composed of wires

which have their upper ends twisted together and inserted in said socket between the bills of said hooks, and their lower ends are secured to the seat.

In testimony whereof I affix my signature in presence of two witnesses.

EMIL G. HESS.

Witnesses:

A. F. MARKHAM,
M. J. GRIFF.