(No Model.)

N. VILÉN.

OPERA CHAIR.

No. 461,225. Patented Oct. 13, 1891.

Fig. 1

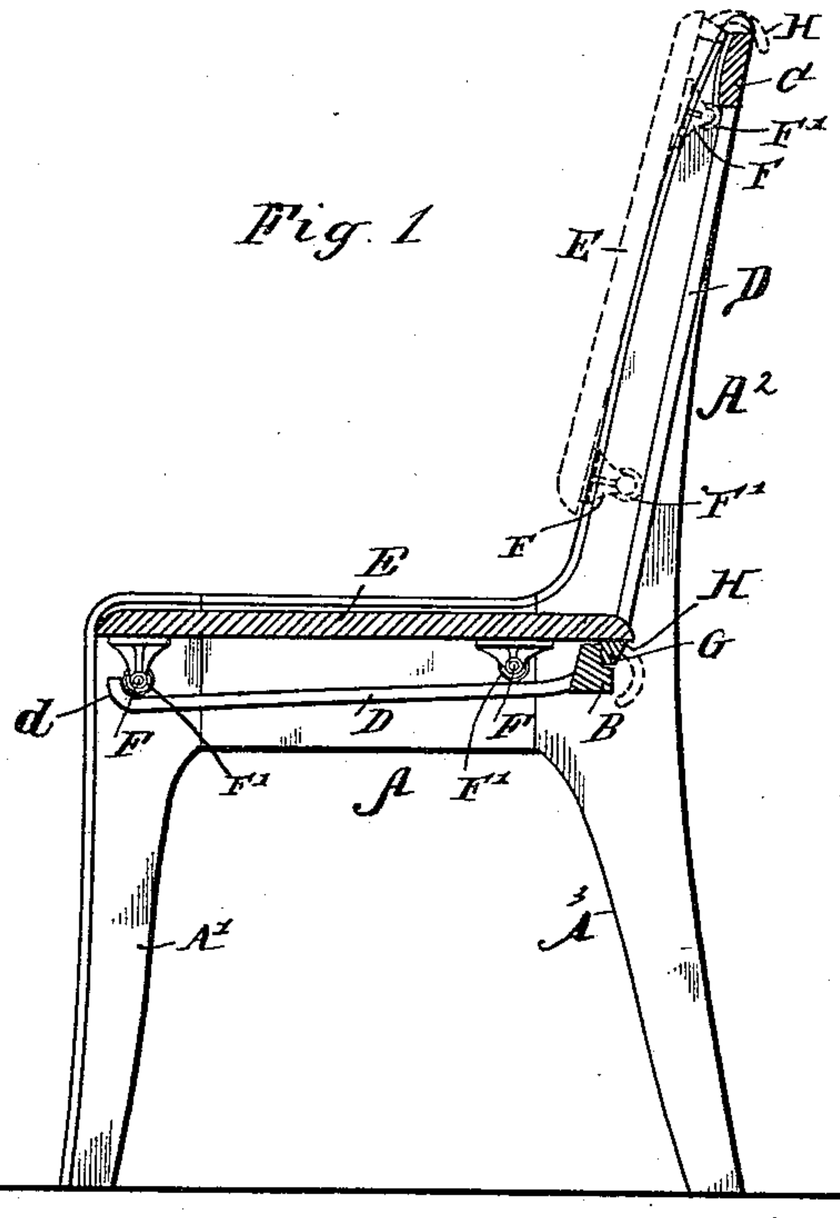


Fig. 2

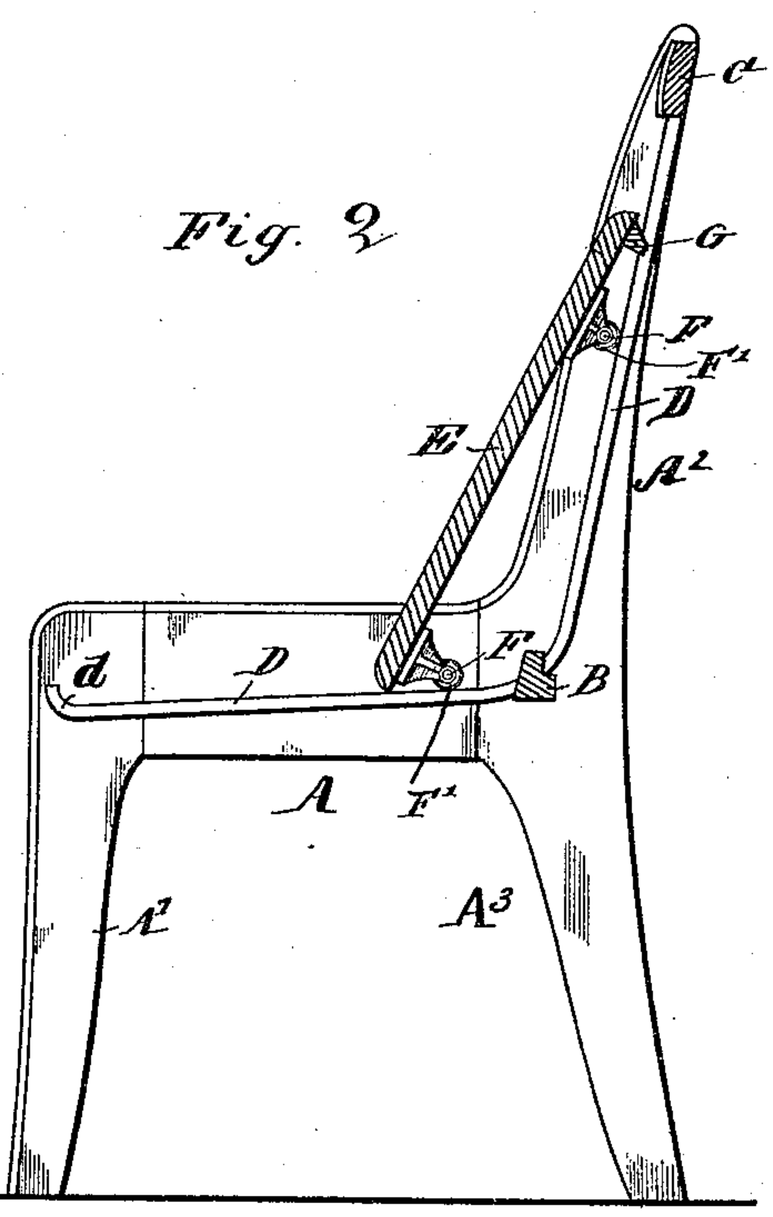


Fig. 3

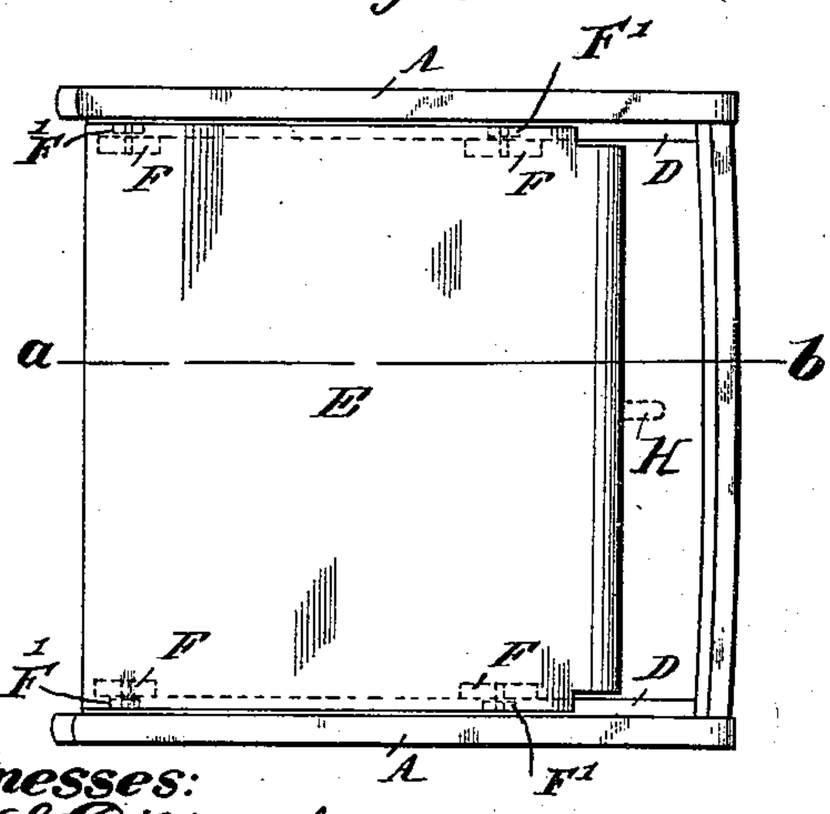
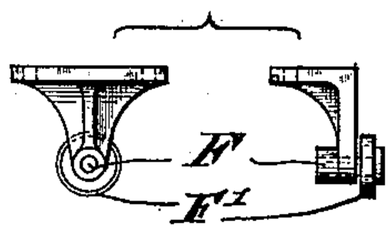


Fig. 4



Witnesses:
H. L. Dieterich
P. W. Sommers.

Inventor:
Nils Vilén.
Munn & Co.
Atty:

UNITED STATES PATENT OFFICE.

NILS VILÉN, OF GOTHENBURG, SWEDEN.

OPERA-CHAIR.

SPECIFICATION forming part of Letters Patent No. 461,225, dated October 13, 1891.

Application filed June 13, 1891. Serial No. 396,189. (No model.)

To all whom it may concern:

Be it known that I, NILS VILÉN, master builder, a subject of the King of Sweden, residing at Gothenburg, in the Kingdom of Sweden, have invented certain new and useful Improvements in Chairs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention has for its object to provide a chair in which the seat may be turned up against the chair-back without effort, so that the occupant on rising may stand inside of the chair-frame and leave the passage between two rows of chairs clear.

The invention is more particularly applicable to chairs for theaters and other public places where it is desirable to provide seats for as many persons as possible on a given floor-space.

The invention consists, essentially, in a chair-seat provided with rolling bearings, in combination with a chair-frame provided with a track extending along the sides and back of the frame.

The invention further consists in details of construction and in combinations of parts, as will now be fully described, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section taken on or about on line *a b* of Fig. 3 of a chair embodying my improvements, the seat being shown in its normal position. Fig. 2 is a like view showing the seat when pushed up along the chair-back. Fig. 3 is a top plan view of the chair. Fig. 4 shows the roller-brackets by a face view and side elevation, respectively.

Similar letters indicate like parts wherever such may occur in the figures of drawings.

A, A′, A^2, B, and C indicate the chair-frame provided with a track composed of two rails D, that extend along the sides A and the standards A^2 of the back of the chair-frame.

E is the seat that has secured to its under side near each corner a bracket F, in which is journaled a roller F′, resting on the track-rails D, which at their forward end are bent upwardly, as shown at *d*, Figs. 1 and 2, to form a stop for the front rollers and prevent the seat from sliding off the rails. The seat D has also on its under side along its rear edge a stop-shoulder G, that engages the cross tie or bar B of the chair-frame to prevent the seat from moving over the bent end of the rails under motion imparted to it by its occupant or by its momentum when moved along the rail D into a nearly upright position and released.

It will be readily seen that it is not necessary to use the hands to push the seat out of the way. A person standing in front of the seat may push it back out of the way by pressure of the legs, which is a great convenience in allowing a person to pass between two rows of seats, as those already seated need not, after rising, turn around for the purpose of turning up their seats to clear the space between the sides A of the chair-frame, as is the case in chairs in which the seats are hinged or journaled to their frames.

To avoid obstructing the passage between the rows of seats during the circulation of the public, I provide such seats with the hook H, so that they may be hooked to the upper cross-rail C of the chair-back, as shown in dotted lines in Fig. 1.

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

1. A chair-seat provided with rolling bearings, in combination with a chair-frame open in the front and provided with a track extending along the sides and back of the chair, for the purpose set forth.

2. A chair-seat provided with rolling bearings, in combination with a chair-frame open in the front and provided with a track extending along the sides and back of the chair, the rails of said track having their front ends bent upwardly, for the purpose set forth.

3. A chair-seat provided with rolling bearings and with a stop-shoulder at its rear edge, in combination with a chair-frame open in the front and provided with a track extending along the sides and back of the chair and with an abutment near said back adapted to engage the stop-shoulder on the seat, for the purpose set forth.

4. A chair-seat provided with rolling bearings and with a hook projecting from its rear edge, in combination with a chair-frame open in the front and provided with a track extending along its sides and back, for the purpose set forth.

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

NILS VILÉN.

Witnesses:
CHARLES H. SHEPARD,
HUGO ARWISSON.