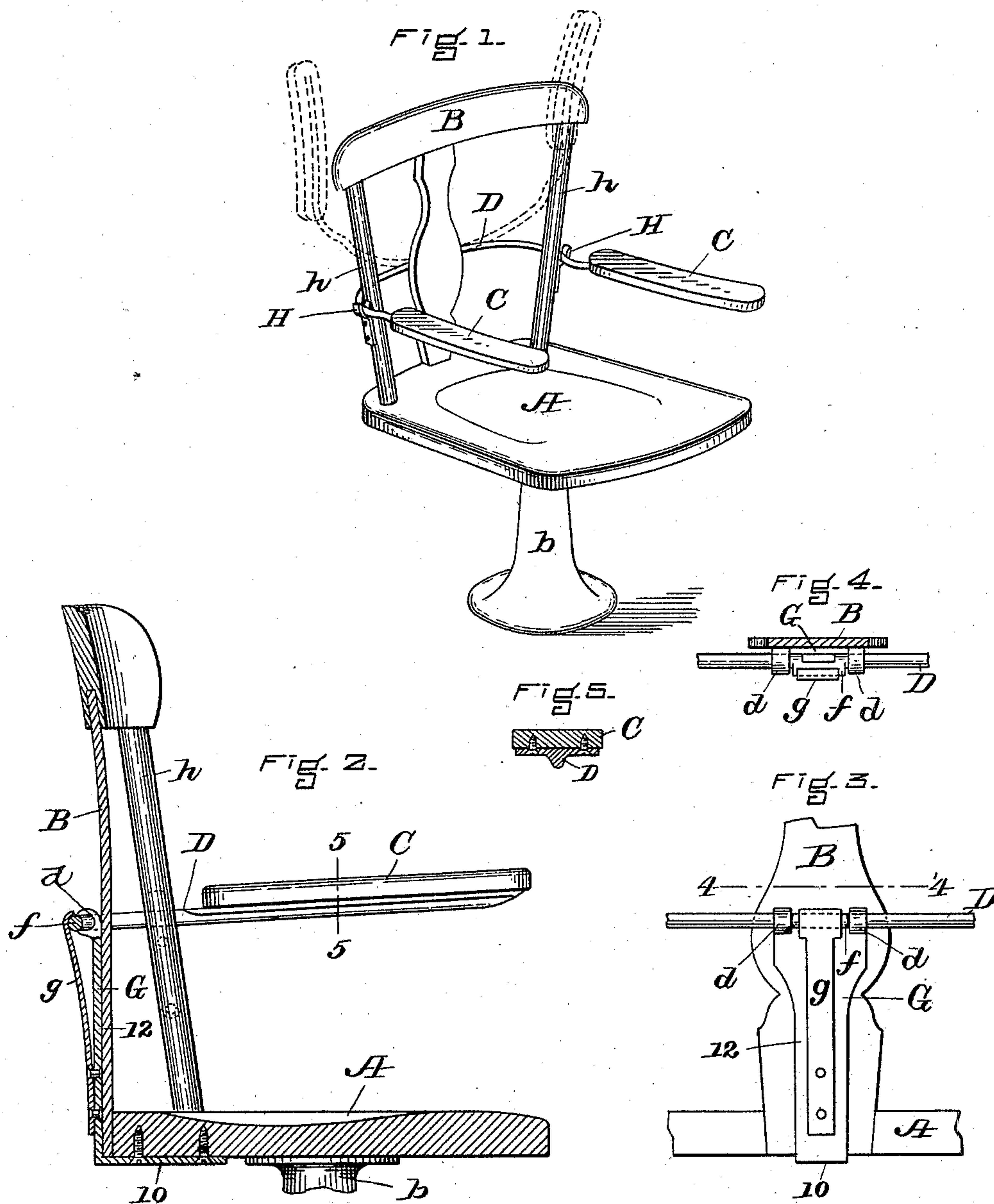


(No Model.)

C. F. HAYNES.
ARM REST FOR SCHOOL CHAIRS, &c.

No. 585,913.

Patented July 6, 1897.



WITNESSES.

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UNITED STATES PATENT OFFICE.

CHARLES F. HAYNES, OF BOSTON, MASSACHUSETTS.

ARM-REST FOR SCHOOL-CHAIRS, &c.

SPECIFICATION forming part of Letters Patent No. 585,913, dated July 6, 1897.

Application filed November 27, 1896. Serial No. 613,649. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. HAYNES, a citizen of the United States, residing at Boston, (Brighton,) in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Arm-Rests for School-Chairs, Seats, Settees, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a school-chair having my improved arm-rests applied thereto. Fig. 2 is a central vertical section of the same. Fig. 3 is a rear elevation of the central portion of the back of the same. Fig. 4 is a horizontal section on the line 4 4 of Fig. 3. Fig. 5 is a transverse section of one of the arm-rests of the chair on the line 5 5 of Fig. 2. It is very desirable that school-chairs should be provided with arm-rests as a preventive against lateral curvatures of the spine, especially in youth, when the tissues are more yielding; and to this end my invention consists in a chair or seat provided with movable arm-rests constructed and arranged to operate in a peculiar manner, as hereinafter fully described.

In the said drawings, A represents the seat of a school-chair mounted upon a post or standard *b* and provided with a back B.

C C are the arms or arm-rests, which are secured to the opposite ends of a curved metal bar or rod D, which forms a frame or support for said arm-rests. This frame D is mounted to turn or swing in suitable bearings in a pair of ears or lugs *d d* at the upper end of a metallic brace G, which is of angular form, having its lower or horizontal portion 10 firmly secured to the bottom of the seat A, its upright member 12 lying close against the back of the chair, as shown in Fig. 2.

The swinging frame D is provided at the center of its length, between the two ears *d d*, with a crank-shaped offset or projection *f*, against which bears a stiff flat spring *g*, secured at its lower end to the portion 12 of the

brace G, the offset *f* being so arranged with relation to the arms C C that in swinging up the frame D the pressure of the spring on said offset will materially assist in the operation of raising the arms and will securely hold them in place either when raised, as shown in dotted lines in Fig. 1, or when in their normal position for use, the spring in the latter position acting against the offset when thrown outward to its farthest extent. The spring *g* also acts at all times as a brake to prevent the arm-rests from dropping by their own weight, thus rendering them noiseless in their action. The two outer posts *h h* of the back are each provided with a U or V shaped stop H, with which the frame D engages when swung down, as shown in Figs. 1 and 2, said stops affording a firm support for said frame and preventing the arm-rests from being carried down beyond their proper limit.

I do not limit myself to the employment of my movable arm-rests in connection with school-chairs only, as it will be obvious that they may be applied to chairs and seats of other descriptions and to settees where fixed arm-rests would interfere with easy access thereto or egress therefrom.

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

In a chair, the combination with the seat and back, of a swinging frame D carrying the arm-rests C C, the back brace or support G provided at its upper end with ears or lugs *d d* having bearings for the frame D, said frame having a central offset or projection *f* arranged between the ears *d d*, the spring *g* secured to the brace G and bearing against the offset *f*, and stops for limiting the downward movement of the frame D, all operating substantially as described.

Witness my hand this 23d day of November, A. D. 1896.

CHARLES F. HAYNES.

In presence of—

P. E. TESCHEMACHER,
B. L. MARDEN.