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F. L. PATCH.

CHAIRS.

No. 186,870. Patented Jan. 30, 1877.

Fig. 1.

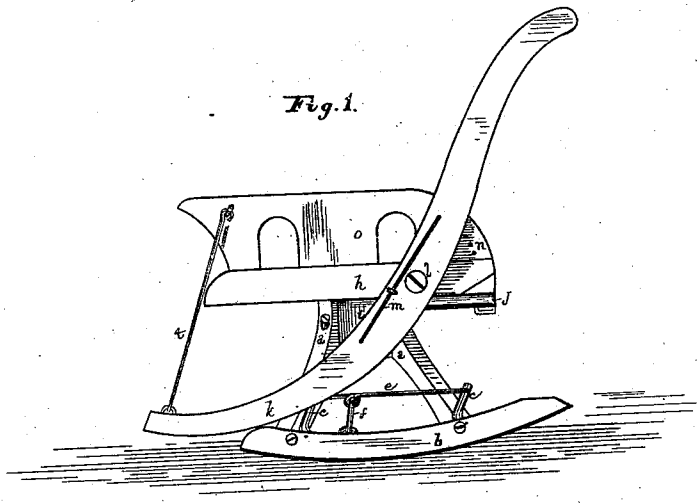
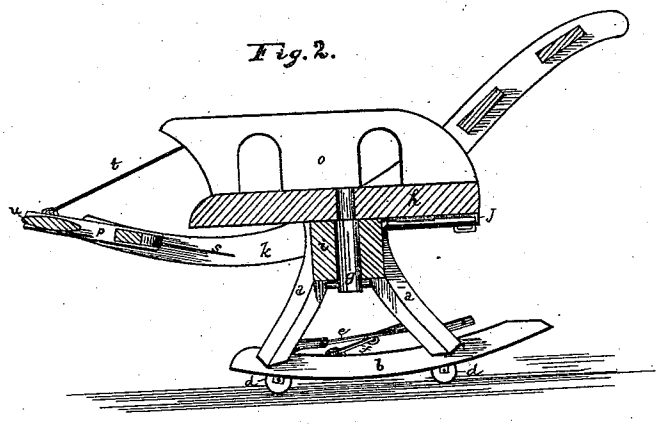


Fig. 2.



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2 Sheets—Sheet 2.

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CHAIRS.

No. 186,870. Patented Jan. 30, 1877.

Fig. 4.

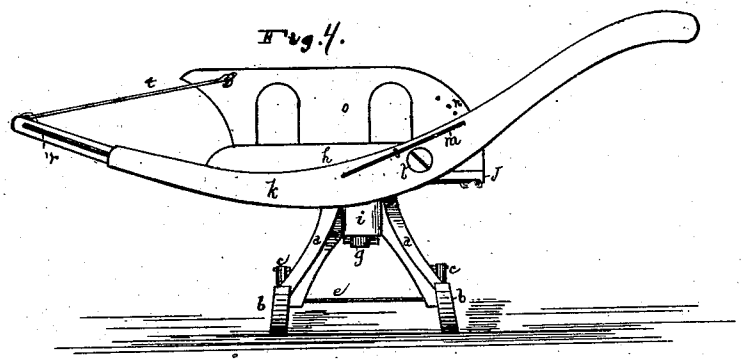
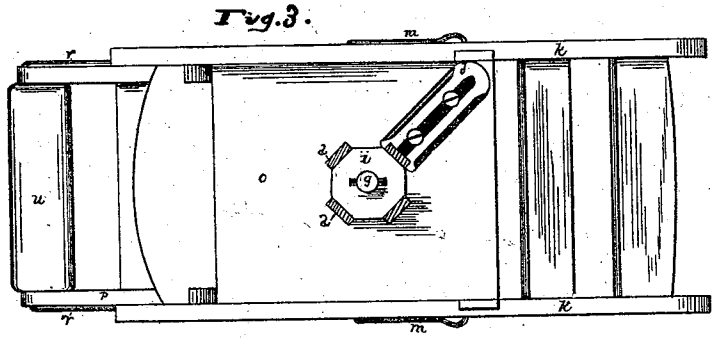


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANK L. PATCH, OF FLORENCE, MASSACHUSETTS.

IMPROVEMENT IN CHAIRS.

Specification forming part of Letters Patent No. **186,870**, dated January 30, 1877; application filed July 10, 1876.

To all whom it may concern:

Be it known that I, FRANK L. PATCH, of Florence, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements Pertaining to a Chair, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a side view. Fig. 2 is a view in central vertical section, with the chair adjusted for reclining therein, and raised on its rollers. Fig. 3 is a bottom view with the legs cut off. Fig. 4 is a side view with the apparatus adjusted as a cradle.

I will first describe the construction and operation of the chair, and then claim the features in which the invention consists.

The letters *a* denote the four legs; *b*, the rocker-arms; *c*, cranked levers, pivoted in mortises in the rocker-arms, bearing rollers *d* at the lower end, and connected from front to rear by connecting-rods *e*, which connecting-rods are transversely connected by the cranked shaft *f*.

By throwing down and backward the upper end of one of the levers *c*, the rollers are thrown below the rocker-arms, and the chair raised from the floor, so that it can be wheeled about. The system of connecting-rods *e* and connecting-shaft *f* make all the levers *c* operate simultaneously.

The pintle *g*, fast on the bottom of seat *h*, runs through and rotates in hub *i*, supported by legs *a*, so that the seat and its dependencies can be rotated or turned around independently of the legs. It can be secured in different adjustments by the slide *j*, slotted at its inner end, and such slot taking hold of the upper part of a leg, *a*.

The letter *k* denotes an extension-frame, all in one piece, extending above the seat to form a back, and below the seat to hold a foot-rest, and it is pivoted to the sides of the seat by pins or screws *l*. This extension-frame can be swung up from the position shown in Fig. 1 to the position shown in Fig. 2, to serve the purpose of a reclining-chair; or even still higher to the position shown in Fig. 4, to serve the purposes of a cradle, and is secured in all these positions by the spring-pawls *m*, running through the side bars of the extension-frame, and fitting into socket-holes *n* in the arms *o*. The foot-rest *p* slides, by means of guide-rods *r*, attached to its sides, in slots *s*, made on the inner sides of the side bars of the extension-frame. Connecting-rods *t* run from the foot-rest to the arms *o*, which, when the fore end of the extension-frame is thrown up, cause the foot-rest to shoot forward into position for use, and correspondingly cause the foot-rest to retreat when the fore end of the extension-frame is thrown down. The foot-slat *u* is pivoted in the sides of the foot-rest, so as to adapt itself to the bottoms of the user's feet.

To adjust this chair as a cradle, from the adjustment shown as Fig. 1, the fore end of the extension-frame is thrown up till this frame lies as near horizontal as its curved shape will permit, the slide *j* is drawn back, and the seat, with its dependences, rotated laterally a quarter-turn, and the slide *j* again thrown inward to engage with another leg. This brings the apparatus into adjustment shown in Fig. 4, which I call "the cradle adjustment."

I claim as my invention—

1. The combination of the pivoted cranked levers *c*, connecting-rods *e*, and transverse cranked shaft *f* with the legs and seat of a chair, substantially as described, and for the purpose set forth.

2. In combination, the seat and arms *h o*, the extension-frame *k*, the foot-rest *p*, sliding in the extension-frame, and the connecting-rods *t*, all substantially as described, and for the purpose set forth.

3. In combination, seat *h*, pintle *g*, hub *i*, legs *a*, and slide *j*, substantially as described, and for the purpose set forth.

FRANK L. PATCH.

Witnesses:

H. S. GOULD,

H. K. PARSONS.