

JOHN C. WANDS.

Improvement in Railway Rail Chairs.

No. 124,646.

Fig. 1.

Patented March 12, 1872.

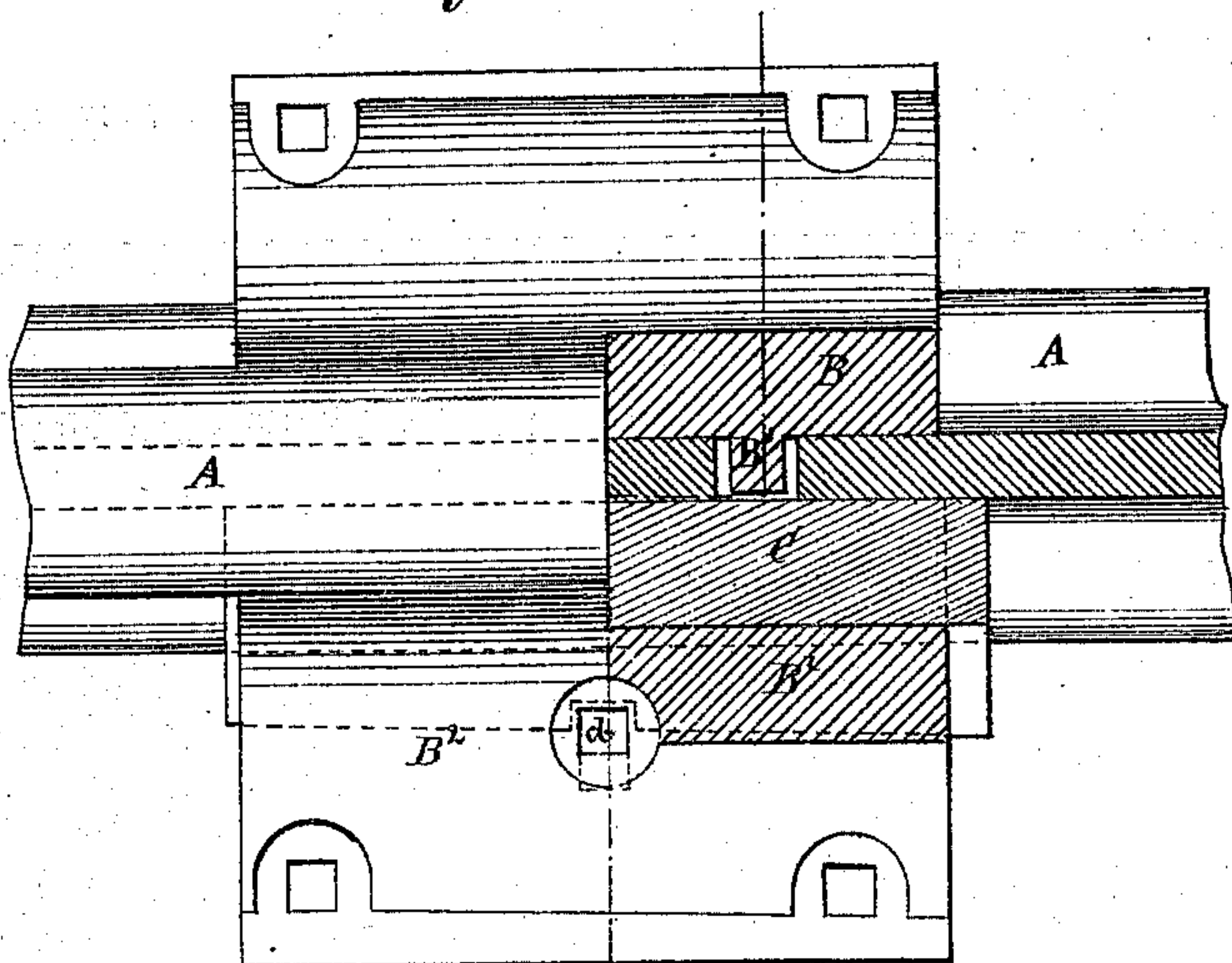
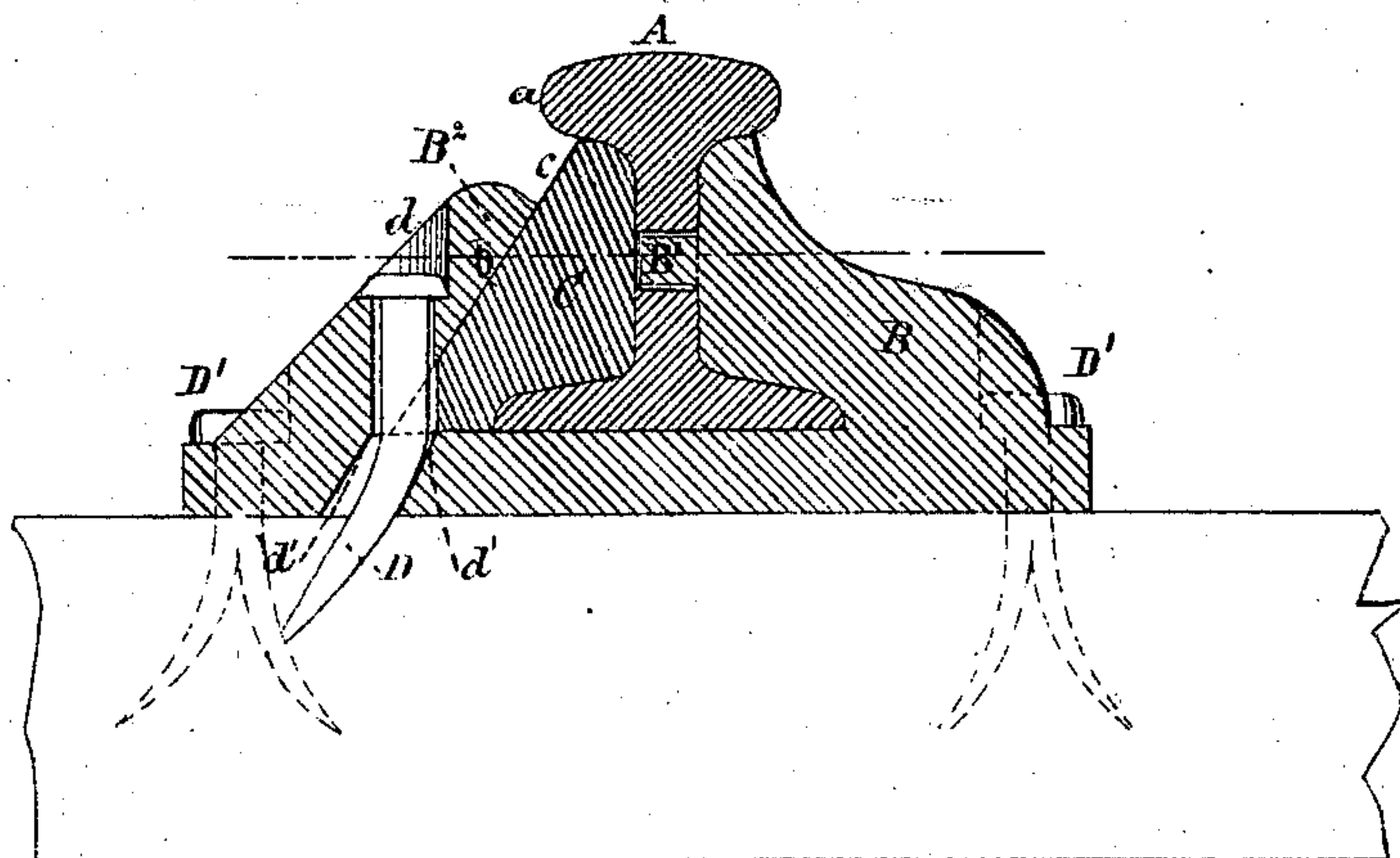


Fig. 2.



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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN RAILWAY RAIL-CHAIRS.

Specification forming part of Letters Patent No. 124,646, dated March 12, 1872.

Specification describing an Improved Mode of Fastening Railroad Chairs, invented by JOHN C. WANDS, of Nashville, in the county of Davidson and State of Tennessee.

The invention will first be fully described, and then clearly pointed out in the claims.

Figure 1 is a horizontal section; Fig. 2 a transverse vertical section.

B A A represent rails whose ends are to be held in alignment; B, a chair; C, a wedge; D, a spike. A is a lug, fitting into a slot of rail, elongated to allow expansion and contraction. D¹ D¹ are ordinary fastening spikes. B² is a side of the chair, having its inner face *b* inclined from the rail, and its spike-hole *d* inclined outward at *d'*. The object of the first inclination is to give a pressing surface to the side B¹ of chair corresponding to the surface *c* of the wedge. This wedge being placed under flange *a* of rail, and these two surfaces being brought into coincidence, the spike D has

its point driven against the incline *d'*, which curves and bends said point outwardly.

The effect of this fastening is to give both a perpendicular and lateral pressure upon the rail, to serve both as a fish-bar connection and chair, and to prevent either end of rail from getting higher than the other. The rail is thus debarred any movement whatever except for expansion and contraction.

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

1. The wedge C *c*, B B² *b d*, and spike D, combined, constructed, and applied to a rail, as and for the purpose set forth.

2. The combination, with the spike D, of the incline *d'* on chair, as and for the purpose set forth.

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