

(No Model.)

A. McFARREN, Jr. & C. FIELD.  
Sliding Seat for Row Boats.

No. 238,701.

Patented March 8, 1881.

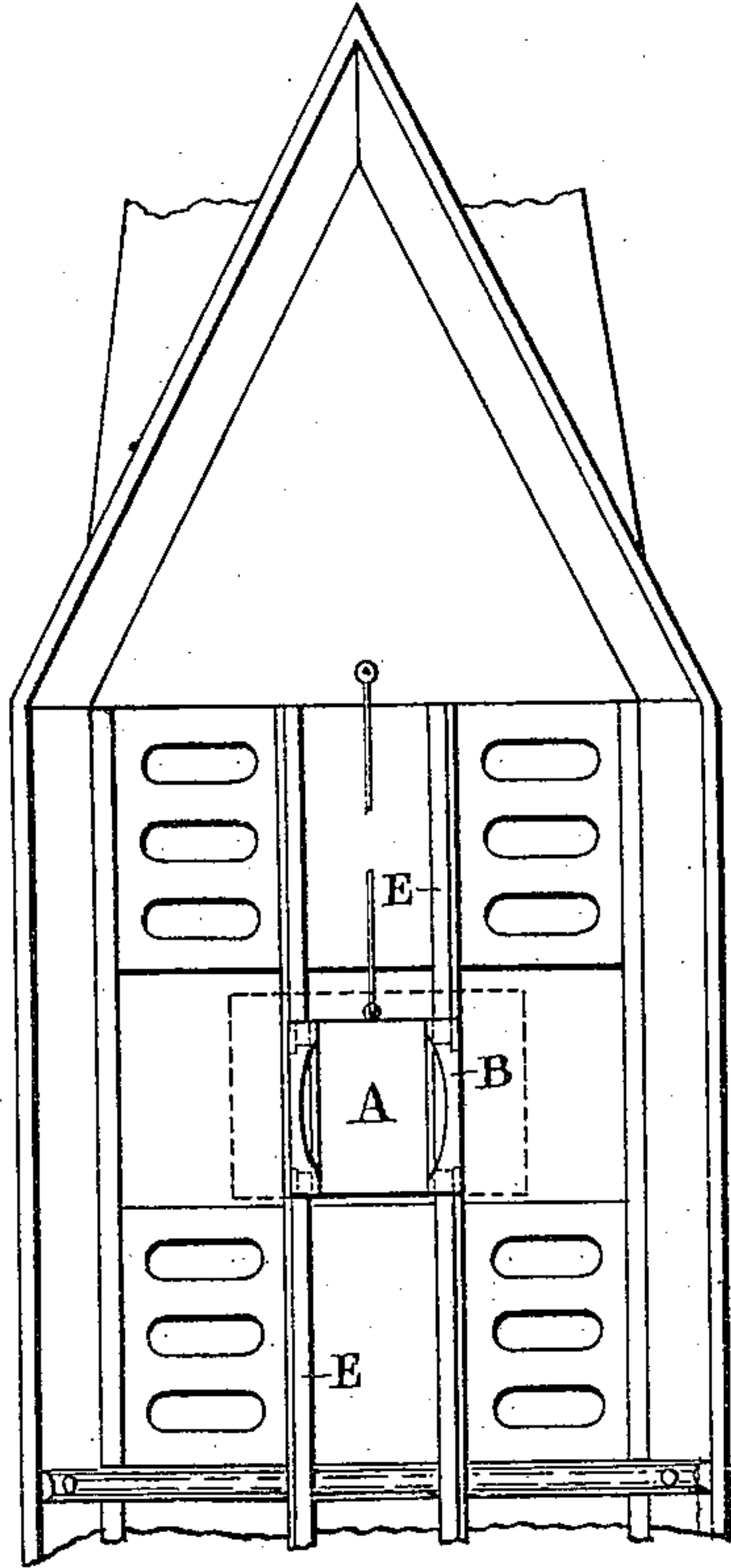


Fig. 1.

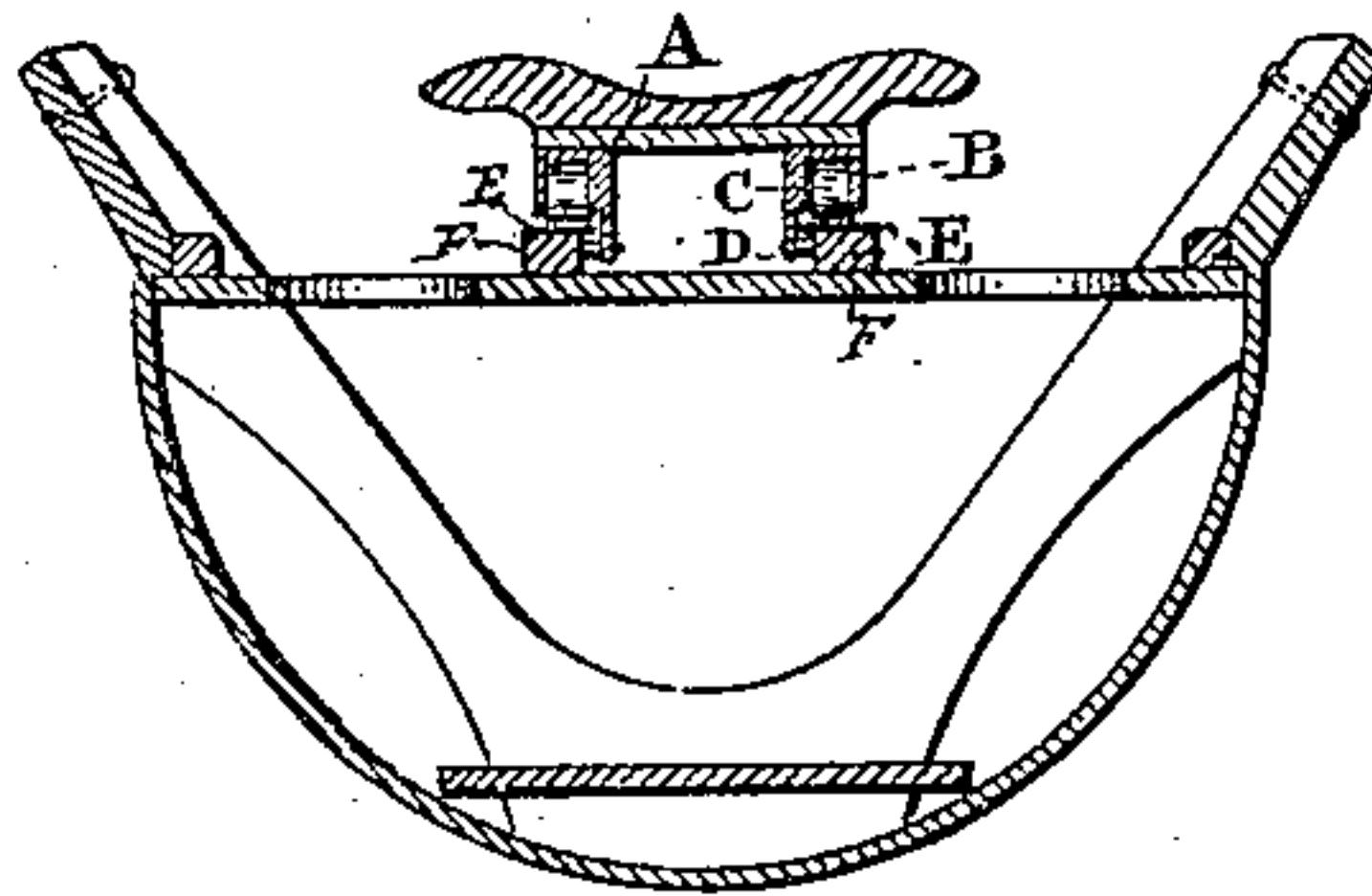


Fig. 2.

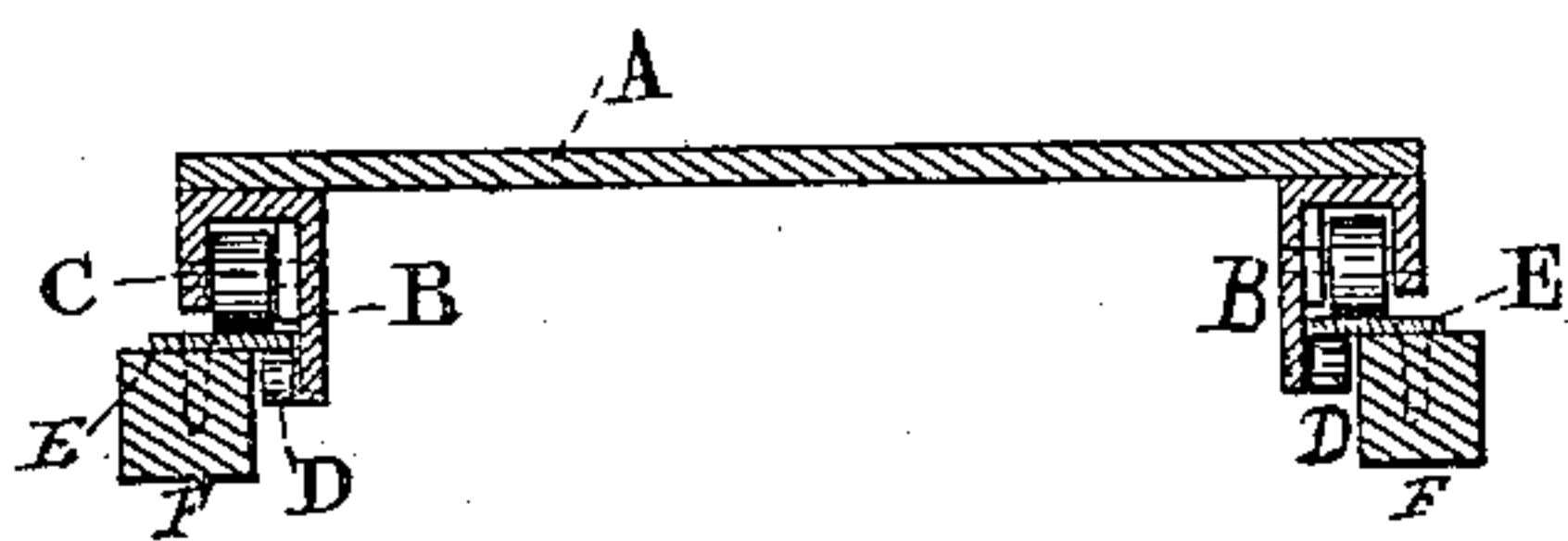


Fig. 3.

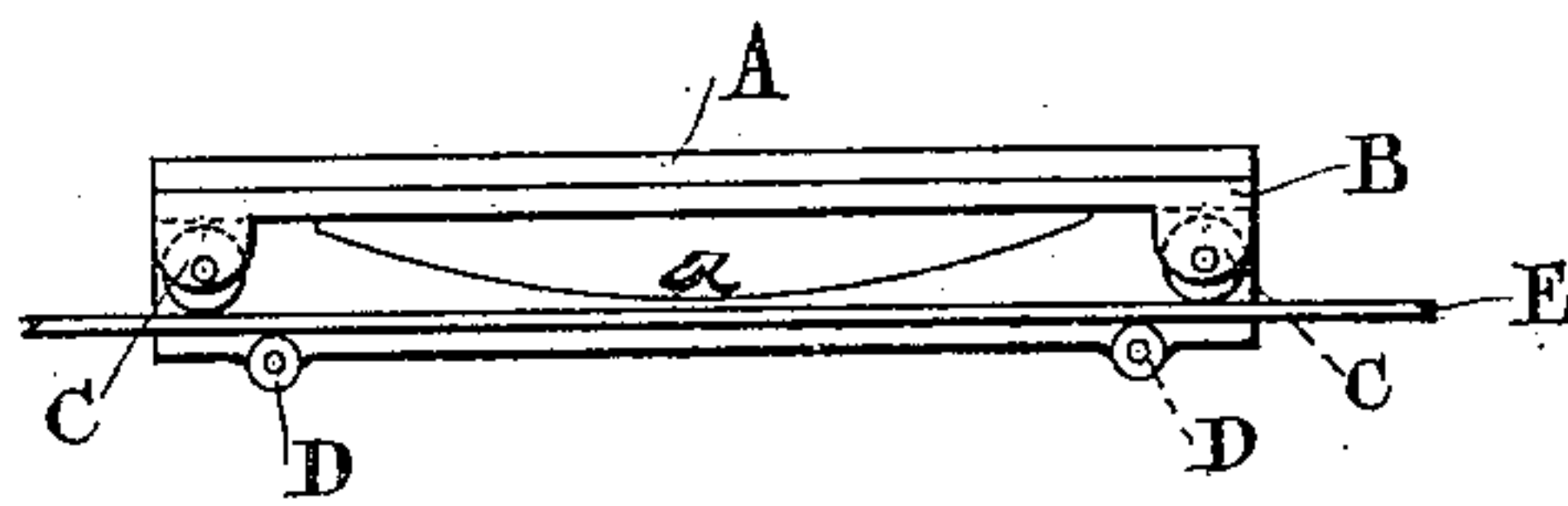


Fig. 4.

Witnesses.

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# UNITED STATES PATENT OFFICE.

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## SLIDING SEAT FOR ROW-BOATS.

SPECIFICATION forming part of Letters Patent No. 238,701, dated March 8, 1881.

Application filed August 28, 1880. (No model.)

*To all whom it may concern:*

Be it known that we, ANDREW MCFARREN, the junior, of the city of Toronto, in the county of York, and Province of Ontario, Canada, merchant, and CHARLES FIELD, of the said city of Toronto, machinist, have invented certain new and useful Improvements in Sliding Seats for Row-Boats, of which the following is a specification.

10 The invention relates to a novel manner of supporting the seat in position; and it consists in attaching it to metal frames provided with friction-rollers, and so arranged that while securing the seat to the guide-plates or slides  
15 in the boat, permits the said seat to slide freely without the application of any lubricant except upon the axles of the rollers, which require so little that no inconvenience is experienced.

20 Figure 1 is a plan view of a boat with my improved sliding seat. Fig. 2 is a transverse section of the same through the sliding seat. Figs. 3 and 4 are transverse and longitudinal sections of my improved sliding seat, the metallic frame provided with rollers to which it  
25 is secured, and the longitudinal bars and rails on which the metal frame slides.

A is the seat securely fastened to the metal frames B. Each of these frames B is shaped,  
30 as shown, to form bearings for the rollers C and D. The rollers C support the seat A, resting upon the guide-plates or rails E, which are secured to the parallel longitudinal bars F, attached to the opposite sides of the interior  
35 of the boat. The other rollers fit beneath the plates E, these holding the seat down while permitting it to slide freely, as desired.

It will be observed that the rails E, upon which the frames B rest, are formed of thin  
40 flat plates bolted to the longitudinal bars F, and projecting over the inner faces of the bars to form an under bearing for the rolls D. By the employment of these overhanging, light, flat plates E in contradistinction to ordinary T-

rails the construction is rendered much lighter 45 (a very important desideratum in race-boats) and the construction is more compact, taking up less room than when a T-rail is employed.

Each of the frames B is also cut away in the arc of a circle centrally, as seen at *a*, Fig. 3, to  
50 lighten the construction, the ends of the seat being secured to the projecting ends of the frames B, which act as braces to secure the seat A in place.

A seat made in the manner herein described 55 works with little or no friction. Consequently its use will not tire the oarsman, enables him to slide to the full extent, and in this manner secure the greatest benefit from the power of his legs without any appreciable exertion. 60

We are aware that a row-boat provided with a sliding seat having wheels supported on T-rails, the journal-boxes of said wheels having arms extending below and under the tread of the rails, whereby the raising of the seat dur-  
65 ing its forward and backward movement is prevented is not new, and we therefore lay no claim to such construction, my invention being confined to the details of construction, whereby friction is lessened and the construction rendered lighter and more compact than  
70 the invention disclaimed.

What we claim as our invention is—

The combination, with a row-boat having the longitudinal bars F F, with overhanging  
75 flat rail-plates E E bolted thereto, of the metal frames B rectangular in cross-section at their ends and centrally cut away at *a*, rollers C D, and seat A, secured to the ends of the metal frames, substantially as described, and for the  
80 purpose set forth.

A. MCFARREN, JR.  
C. FIELD.

In presence of—

D. W. CLENDENAN,  
*Of Toronto, Barrister-at-law.*

T. A. WATTS,  
*Of Toronto, Clerk.*