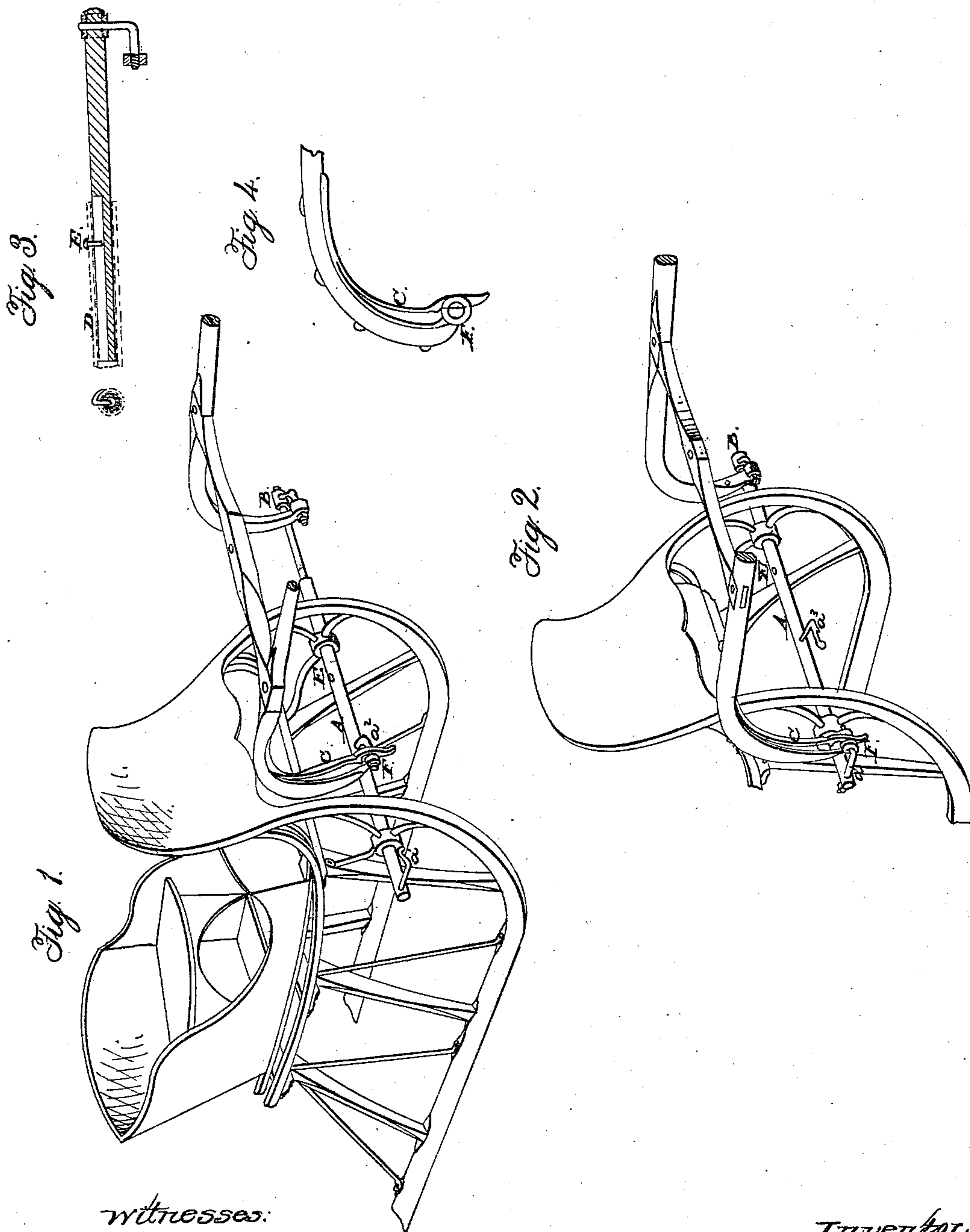


N. T. WHITING.

Sleigh.

Patented Apr. 23, 1867.

No. 64,177.



Witnesses:

Seth D. Paul
Charles Clarke

Inventor:

Nathaniel T. Whiting

United States Patent Office.

NATHANIEL T. WHITING, OF LAWRENCE, MASSACHUSETTS.

Letters Patent No. 64,177, dated April 23, 1867.

IMPROVEMENT IN SLEIGHS.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, NATHANIEL T. WHITING, of Lawrence, in the county of Essex, and State of Massachusetts, have invented a new and useful Improvement on a Sleigh; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification.

Figure I is view showing the shafts "set off."

Figure II is view showing the shafts as set to "follow" straight, with slide B in.

Figure III is view showing groove D and pin E.

Figure IV is view showing spring C and slot F in slotted shaft iron.

The slotted hooks are shown in Figs. I and II, $a^1 a^2$; also the bar A and slide B.

The object of this invention is to obtain a reliable "set-off" device without injuring the beauty of the sleigh, and at the same time obtain the advantage of having the point of draught as near the body of the sleigh as desirable. For that reason I place the cross-bar A behind the front part of the runners. The slide B is the set-off. The groove D and pin E are to prevent the slide B turning, as it otherwise would when "backing." The hooks $a^1 a^2$ are slotted to allow the spring C to enter. The spring C operating through the slotted shaft iron F is for the purpose of holding the shaft on the hooks $a^1 a^2$. The cross-bar A is hollow to allow the slide B to pass in; it is filled with wood, except the space occupied by the slide B. The slide B is also filled with wood, it being stiffer than solid iron.

The device is operated by depressing the spring C, pushing the shaft from the hook a^1 around front of the runner on to the hook a^2 .

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

1. The combination of the hollow cross-bar A, the slotted slide B, and pin E, when constructed and arranged to operate substantially as and for the purpose set forth.

2. The combination of the slotted shaft irons F, the springs C, and slotted hooks $a^1 a^2$, when arranged to operate substantially as and for the purpose set forth.

NATHANIEL T. WHITING.

Witnesses:

W. FISK GILL,

SETH D. PAUL.