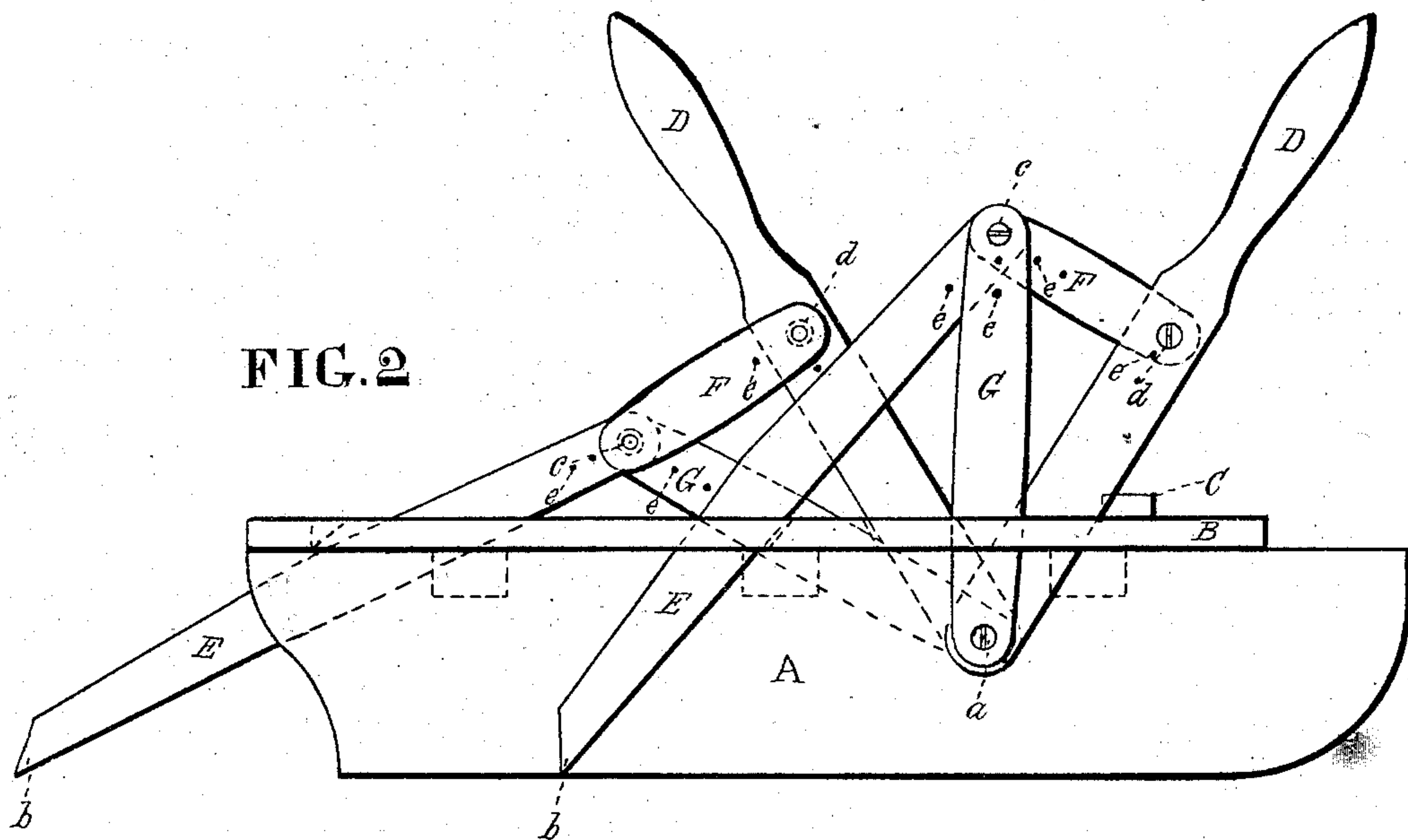
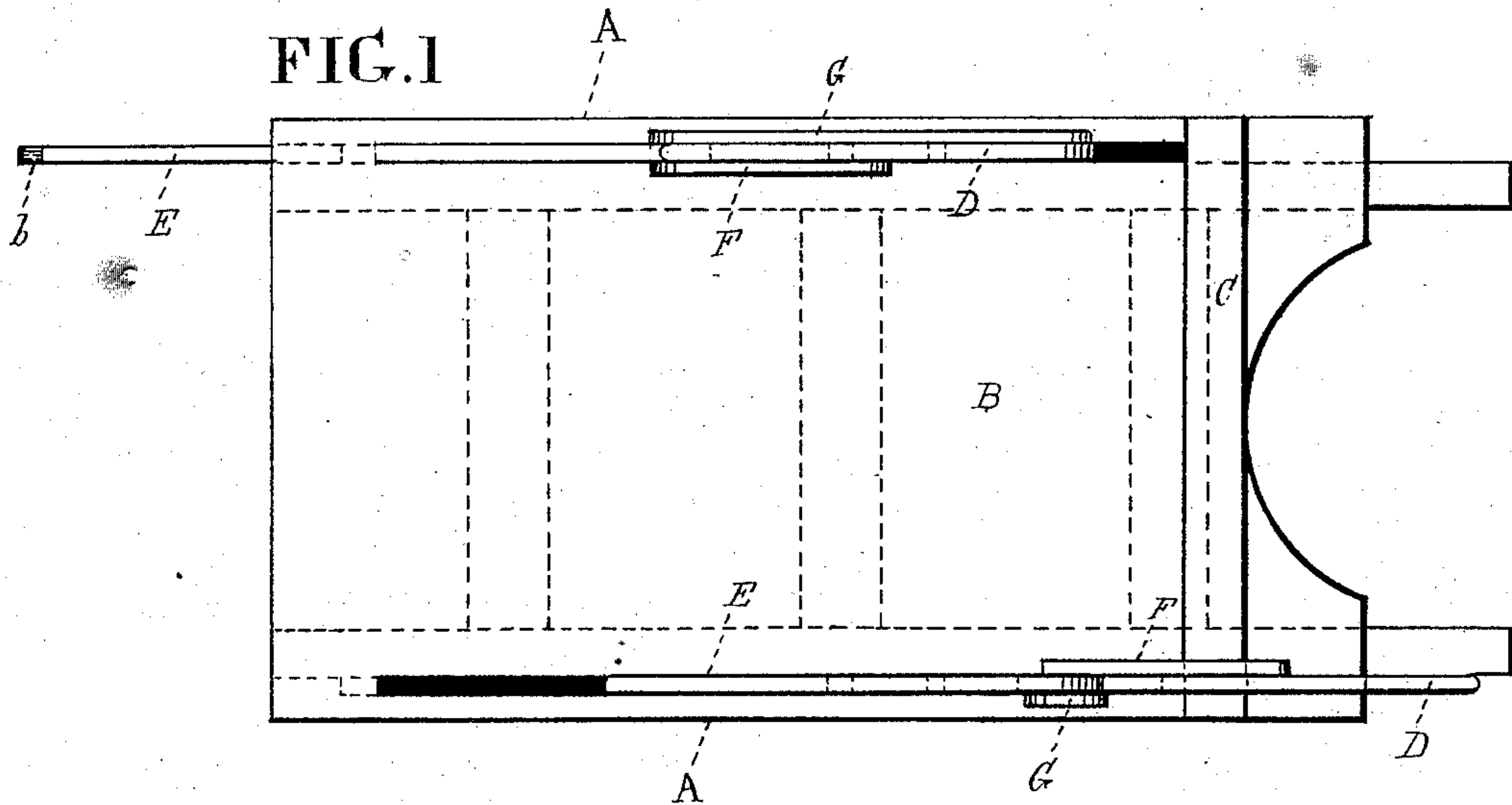


W. H. HELMBOLD.

Sleds.

No. 157,823.

Patented Dec. 15, 1874.



Witnesses
 Thomas J. Dewley
 Isaac Rindge

Inventor
 William H. Helmbold
 By His Attorney
 Stephen Ustick

UNITED STATES PATENT OFFICE.

WILLIAM H. HELMBOLD, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SLEDS.

Specification forming part of Letters Patent No. **157,823**, dated December 15, 1874; application filed October 15, 1874.

To all whom it may concern:

Be it known that I, WILLIAM H. HELMBOLD, of the city and county of Philadelphia, in the State of Pennsylvania, have invented an Improvement in Children's Sleds, of which the following is a specification:

My invention relates to the combination of pushing-shafts, levers, and connecting-bars and braces, with the sides of the sled for propelling it, as hereinafter fully described.

In the accompanying drawings, Figure 1 is a plan view of my improved sled. Fig. 2 is a side elevation of the same.

Like letters of reference in both figures indicate the same parts.

A A are the sides or runners, and B the top, having a foot-rest, C.

It may also be provided with any suitable seat.

To each side A is connected a vertical lever, D, by means of the fulcrum-pin *a*. To the lever is jointed the pushing-shaft E, having a pointed end, *b*, which should be shod with steel, so as to stick in the ground when the lever is pulled back to give the forward motion to the sled. The shaft is hung on the pivot *c*, between one end of the bar F and the brace G, the other ends of the bar and brace being connected, respectively, with the lever

by means of the screw or bolt *d* and the fulcrum-pin *a*.

By this mode of connecting the shaft E to the lever, great strength is secured.

There are holes *e* in the levers D, pushing-shaft E, bar F, and brace G, for varying their connection, if desired, to give more or less leverage. At each side of the sled there are vertical slots *f* in the top B, for the lateral guiding of the levers D and shafts E.

The operation is as follows: Each lever is thrown into its forward position, as shown clearly in Fig. 2, and pushed backward into the position represented at the opposite side of the sled. The levers, operating independently of each other, are moved simultaneously in the same direction when the sled is to be propelled straight forward. When it is required to vary its direction, it is steered by varying their movements.

I claim as my invention—

The combination of the levers D, pushing-shafts E, bars F, and braces G with the sides of the sled, substantially as and for the purpose set forth.

WILLIAM H. HELMBOLD.

Witnesses:

THOMAS J. BEWLEY,
STEPHEN USTICK.