

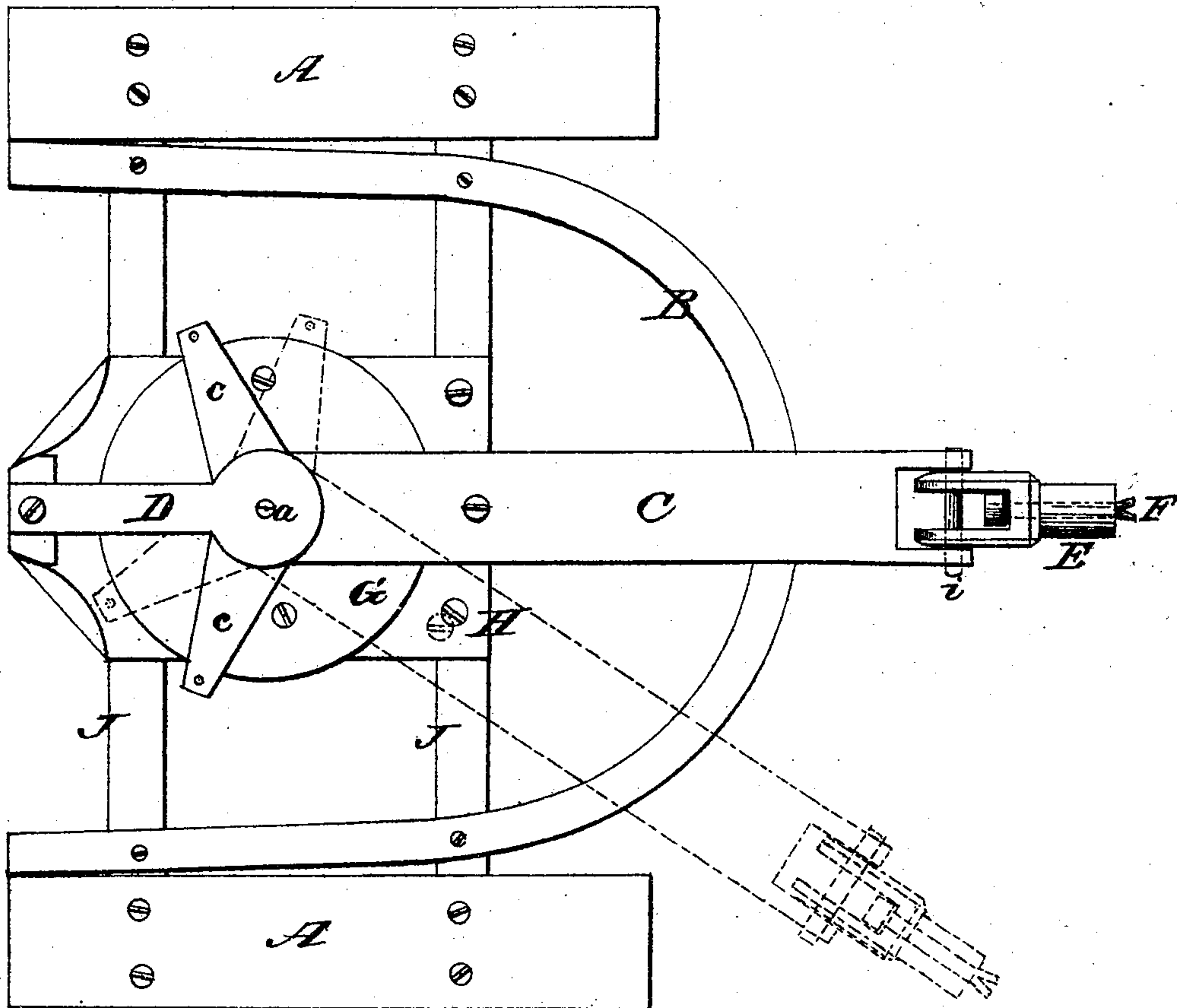
DENNIS HOLTZ.

Improvement in Bob-Sleds.

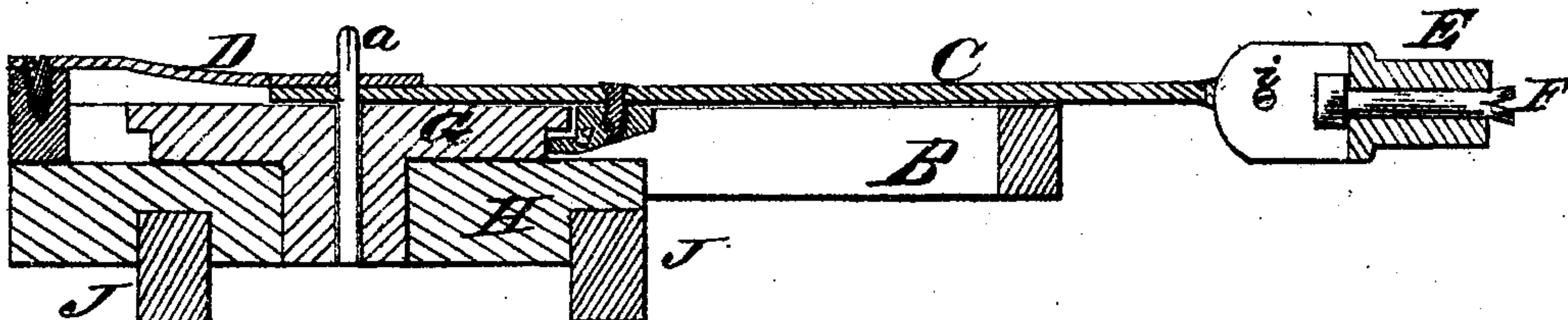
No. 119,611.

Patented Oct. 3, 1871.

*Fig. 1*



*Fig. 2*



*Witnesses.*  
*R. D. Campbell.*  
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# UNITED STATES PATENT OFFICE.

DENNIS HOLTZ, OF TIFFIN, OHIO.

## IMPROVEMENT IN BOB-SLEDS.

Specification forming part of Letters Patent No. 119,611, dated October 3, 1871.

*To all whom it may concern:*

Be it known that I, DENNIS HOLTZ, of Tiffin, in the county of Seneca and State of Ohio, have invented a new and useful Improvement in Bob-Sleds; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a top view of the front bed having my improvement applied to it. Fig. 2 is a section taken longitudinally and vertically through the center of the same.

Similar letters of reference indicate corresponding parts in both figures.

This invention consists in a device for coupling the beds of bob-sleds together so that the sleds can be turned without bringing the bolsters nearer together, and so that the sleds may pass over rough and uneven ground without liability of straining them, as will be hereinafter explained.

In the accompanying drawing the bed for the front runners of the sled is represented; that for the rear runners is constructed in precisely the same manner, and for this reason is not shown. This bed is composed of two side pieces, A A, bolted upon transverse bolsters J J, across the middle of the length of which a strong bed-piece, H, is framed into them. In the center of the bed-piece H and firmly bolted upon it is a circular flanged plate, G, which may have a hub formed on it that will extend through the bed H, as shown in Fig. 1. The center of the plate G is bored out to receive a king-pin, *a*, which forms a pivot and connection for a reach, C, and about which this reach turns. This reach has two arms, *c c*, formed on its pivoted end, which

radiate from the king-pin *a* and have jaws or hooks formed on their ends that are turned under the flange of plate G. Another jaw or hook, S, is applied to the reach C, so as to hook under said flange, as shown in Fig. 2. In this way the pivoted end of the reach is connected to and held down upon the plate G. The overhanging strap D serves as a brace for the king-pin. The reach extends back over a horizontal supporting-yoke, B, of semicircular shape, which is bolted down upon the bolsters J J, as shown, and the rear end of this reach is forked to receive a forked hinged piece, E, which is pivoted at *i* by a horizontal transverse pin, and which is perforated longitudinally to receive through it swivel-rod F, by means of which latter a coupling is effected with the rear runner-bed.

It will be seen from the above description that I connect two runner-beds together so that they have perfect freedom to accommodate themselves to the undulations of the ground passed over, and that the front runner-bed can be turned to the right or the left without in any manner straining the parts of the sled.

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

The reach C, connected by king-pin *a* and jaws *s* to a circular flanged plate, G, supported by a yoke, B, and provided on its rear end with a swivel-coupling, substantially as described, and for the purpose set forth.

DENNIS HOLTZ.

Witnesses:

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(22)