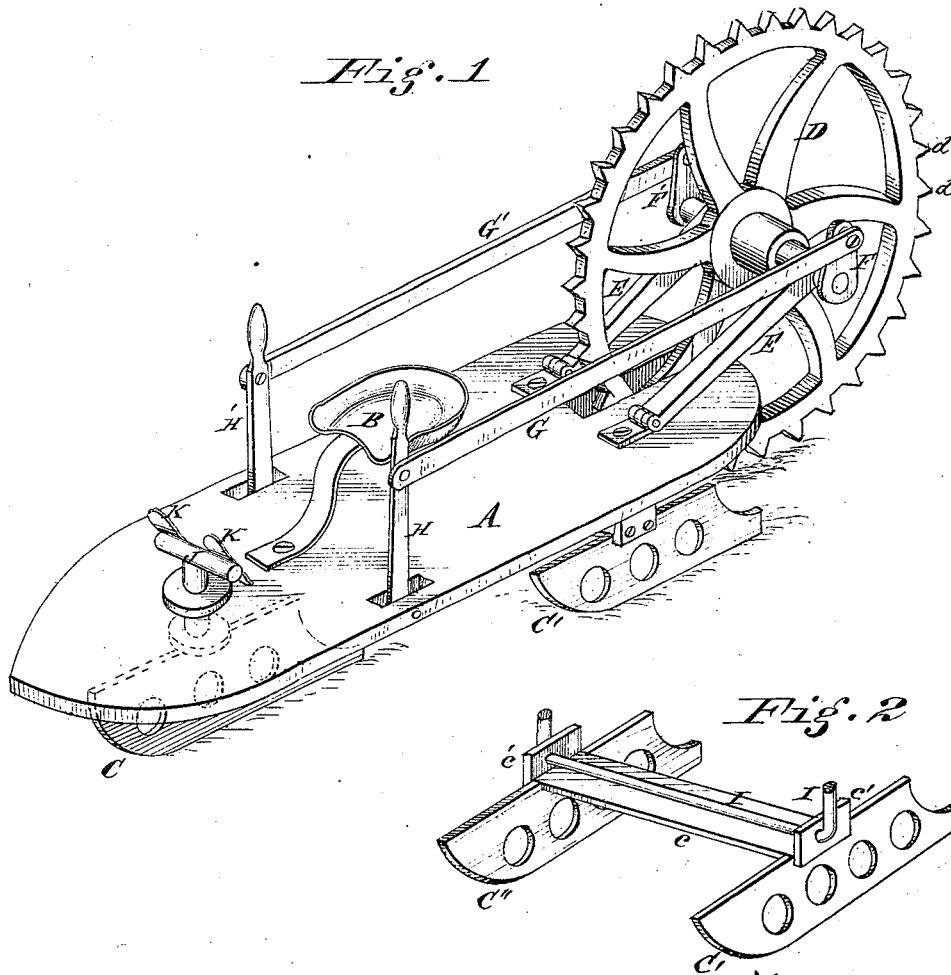


J. M. STORY.

Sleigh.

No. 167,627.

Patented Sept. 14, 1875.



Attest
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UNITED STATES PATENT OFFICE

JOSEPH M. STORY, OF CINCINNATI, OHIO.

IMPROVEMENT IN SLEIGHS.

Specification forming part of Letters Patent No. **167,627**, dated September 14, 1875; application filed January 8, 1875.

To all whom it may concern:

Be it known that I, JOSEPH M. STORY, of Cincinnati, Hamilton county, State of Ohio, have invented an Improvement in Ice or Snow Sleds, of which the following is a specification:

My invention consists, first, in certain peculiar appliances, by which the rider is enabled to propel the sled, the appliances being so constructed and arranged to operate in such a manner that the propelling-wheel will ride over undulating surfaces without affecting the bearing of the runners upon the ice.

Figure 1 is a perspective view of a sled embodying my invention. Fig. 2 is a perspective view of the back runners.

A is the base or body of the sled; B, the rider's seat; and C C' C'', the running irons or runners. D is the propelling-wheel armed with projecting teeth *d*, to firmly engage in the face of the ice or snow. This wheel is journaled in swinging arms E E, hinged at *e* to the body A, and its shaft is fitted at both ends with cranks F F', to which connecting rods G G' are attached, the other ends of the latter being connected by a swiveling-joint with the hand-levers H H'. By this provision of the swiveling or swinging arms E E', in

connection with the propelling-wheel and its driving attachments the wheel is enabled to ride over uneven surfaces, while the runners are also permitted to run over uneven surfaces without either the wheel or runners being deprived of its bearing on the surface of the ice or snow. The hind runners C' C'' are secured together by cross-bar *c*, and have ears *e'* to fit over the bar or bail I, which is secured to the body A. This construction enables the runners to automatically adjust themselves to undulating surfaces. The forward runner C is made, as shown, to swivel in the body A for steering purposes, and is provided with cross-bar J and foot-rests K, by which the operator is enabled to change the direction of this runner at will.

I claim—

The combination of sled A B C C' C'', wheel D *d*, swinging arms E E', cranks F F', rods G G', and hand-levers H H', as and for the purpose set forth.

In testimony of which invention I hereunto set my hand.

JOSEPH M. STORY.

Witnesses:

FRANK MILLWARD,
EDWARD BOYD.