(No Model.)

J. A. CONWELL.

FOLDING SLED.

No. 259,822. Patented June 20, 1882.

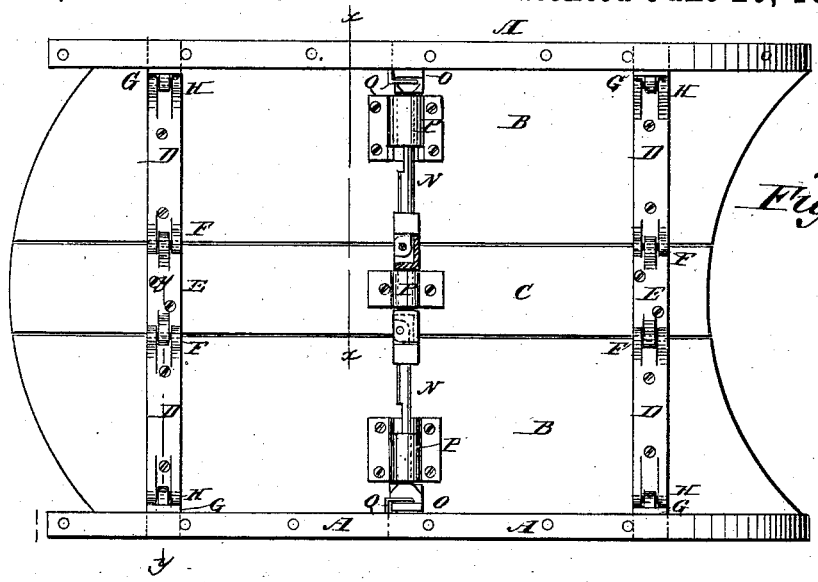

Fig. 1.

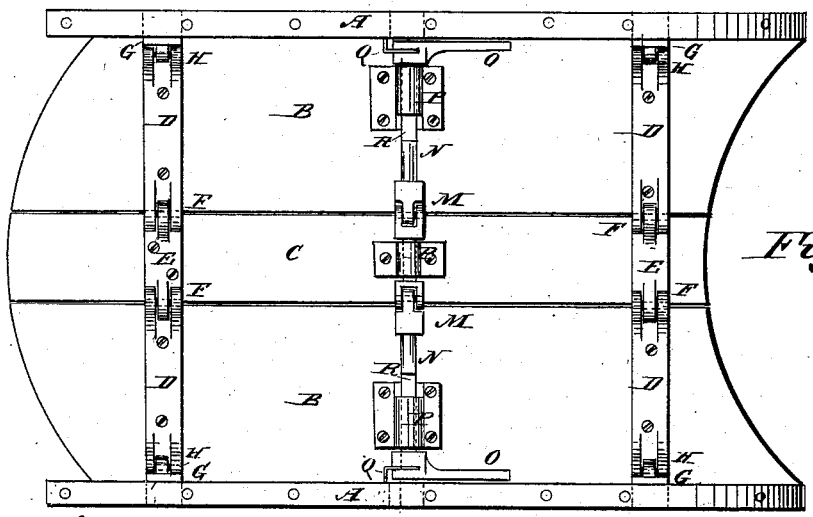

Fig. 2.

Fig. 4.

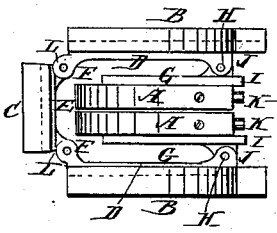

Fig. 3.

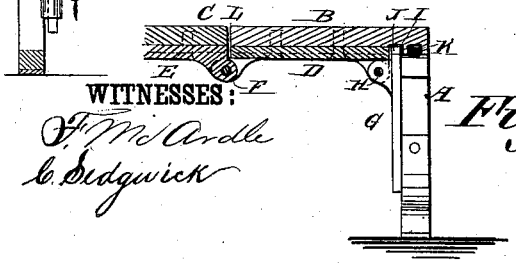

Fig. 5.

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JOHN A. CONWELL, OF AURORA, INDIANA.

FOLDING SLED.

SPECIFICATION forming part of Letters Patent No. 259,822, dated June 20, 1882.

Application filed April 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN ALFRED CONWELL, of Aurora, in the county of Dearborn and State of Indiana, have invented a new and Improved Folding Sled, of which the following is a full, clear, and exact description.

This invention consists of a sled contrived to fold at the joints of the runners with the top, and also along the middle of the top, the objects being to enable the manufacturer and shipper to economize space, also for economy of space in the house, and also to enable the boy to fold and carry it under his arm, when desired, and to stow it under his seat at school, as hereinafter more fully described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan of the sled inverted and with the parts adjusted for using the sled. Fig. 2 is a similar plan with the fastening device adjusted preparatory to folding the sled. Fig. 3 is an end view of the folded sled. Fig. 4 is a transverse section on line *x x* of Fig. 1. Fig. 5 is a transverse section on line *y y* of Fig. 1.

A represents the runners; B, outer and C a middle portion of the top.

The beams consist of three parts corresponding in length to the width of the top, the outer parts, D, being as long as the width of parts B, and the middle part, E, being equal in length to the width of the middle part, C, of the top. These corresponding parts of the beams and the top are suitably fastened together, and the parts D and E of the beams are jointed to each other at F, coinciding with the dividing-lines of B and C.

The knees G are jointed to sections D of the beams at H, and they have an extension, I, above the joint, and bearing against the shoulder T of the end of the knee to form substantial support of the runners against spreading apart. The runners also have dowel-pins K entering sockets in the top B, for rigidity.

The joints F have substantial shoulders L, which, together with the abutting edges of the parts B and C of the sled top, prevent the top from collapsing.

The joints F are re-enforced by the similarly-shouldered joints M of the rock-shaft N, having elbows O to lock the runners A in the working position, said shaft being fitted in the clip-bearing P, by which it is attached to the top B C, so that it can turn to shift the elbows O into the angles between the runners and the top, as shown in Fig. 2, for allowing the runners to fold, or into the position of Fig. 1 to lock the runners in the working position.

The joints M are arranged with respect to elbows D so that when said elbows are in the position of Fig. 1 they lock the top in the open condition, and they will not allow the top to fold except when elbows O are in the position represented in Fig. 2.

The runners have a clip-stud, Q, to receive elbows O when holding the runners open to prevent the runners from spreading away from the elbows.

The manner of folding the sled is represented in Fig. 3, the runners A being folded parallel with parts B of the top, and said parts B and the runners being turned at right angles to part C.

The shaft N has notches filed in it at R to make room for the sled-clip Q when the sled is folded together.

For convenience of handling and economy of space the foregoing contrivance will be readily appreciated, and it will be noticed that the requisite strength for rough handling is preserved.

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

1. In a folding sled, the runners jointed to the outer portions, B, of the top, and the said outer portions, B, jointed to the middle portion, C, of said top, to fold substantially in the manner described.

2. The combination, with the runners A and top B C, of beams having joints F and H, substantially as described.

3. The combination, with the top B C and the runners A of a folding sled, of knees G, jointed to the beams, substantially as described.

4. In a sled having the knees G jointed to the beams, the said knees having extension I, in combination with joint H and shoulder J of the beams, substantially as described.

5. In a sled having the knees G jointed to

the beams, the runners A, having dowel-pins K, in combination with top B, having sockets for said pins, substantially as described.

6. In a sled having sectional beams D and E, connected by joints F, the said joints F having shoulders L, substantially as described.

7. In a sled having sectional beams D and E, connected by joints F, the said joints F having shoulders L, in combination with abutting edges of sections B C of the top, substantially as described.

8. The combination, with runners A, jointed to the top B, of elbows O, adjustably arranged with the said runners and top, substantially as described.

9. The combination, with runners A, jointed to the top B, of the adjustable elbows O and the stud-clip Q, substantially as described.

10. The combination, with runners A, jointed to the top, and the top B C, jointed together, of shaft N, having elbows O, and being jointed at M, substantially as described.

11. The combination, with runners A, jointed to top B C, jointed together, of shaft N, having elbows O and being jointed at M, and also being arranged to shift in its bearings P, substantially as described.

12. The shaft N, having elbows O and joints M, in combination with runners A, jointed to top B, and with top B C, jointed together, the said joints M being arranged to lock the top in the open condition, and the elbows to lock the runners open and to unlock the same, according as the said shaft is shifted from one position to another, substantially as described.

JOHN ALFRED CONWELL.

Witnesses:
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AMOR F. BRUCE.