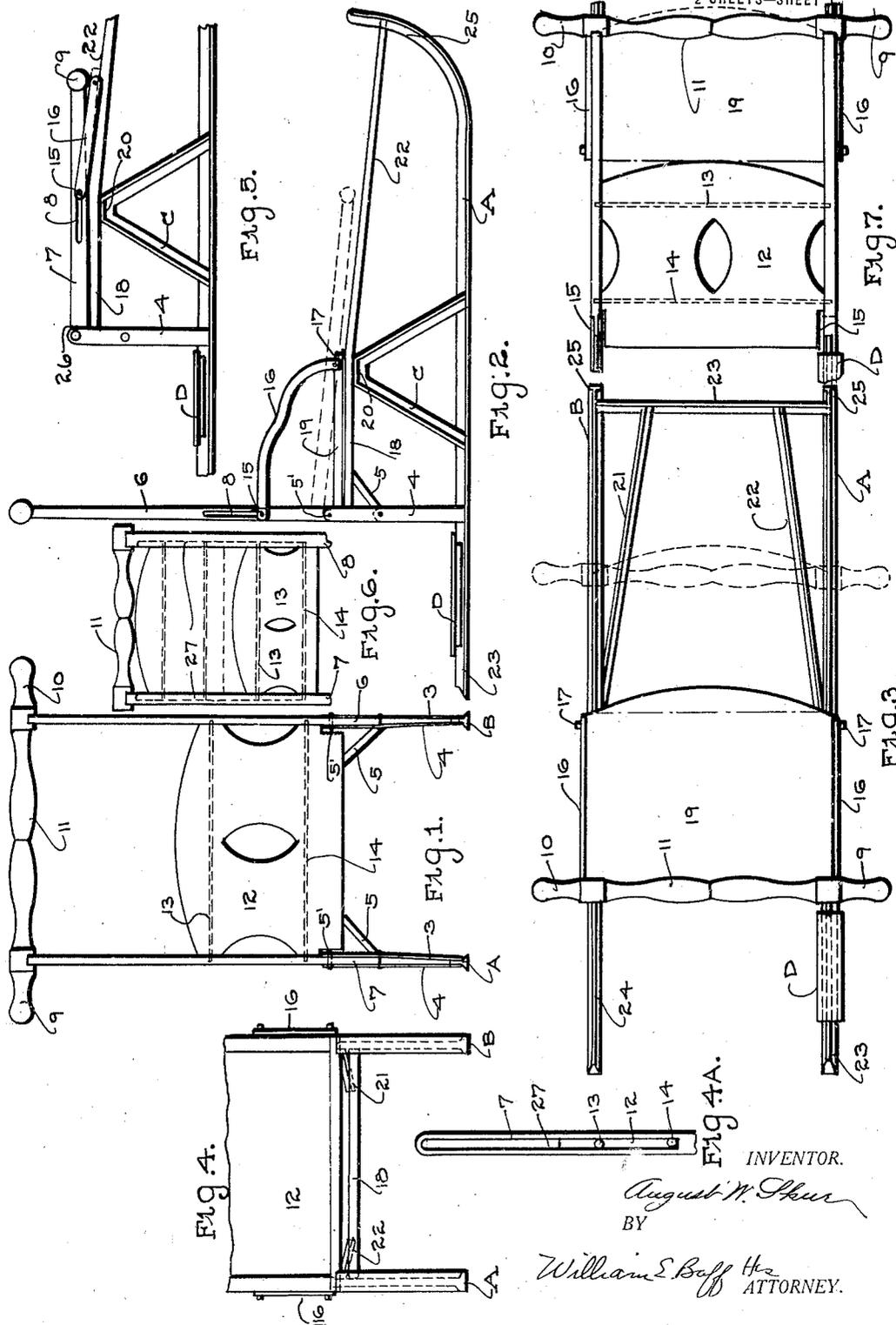


1,362,902.

A. W. SKUR.  
COMBINATION KICK AND BOB SLED.  
APPLICATION FILED FEB. 9, 1920.

Patented Dec. 21, 1920.

2 SHEETS—SHEET 1



INVENTOR.

*August W. Skur*  
BY

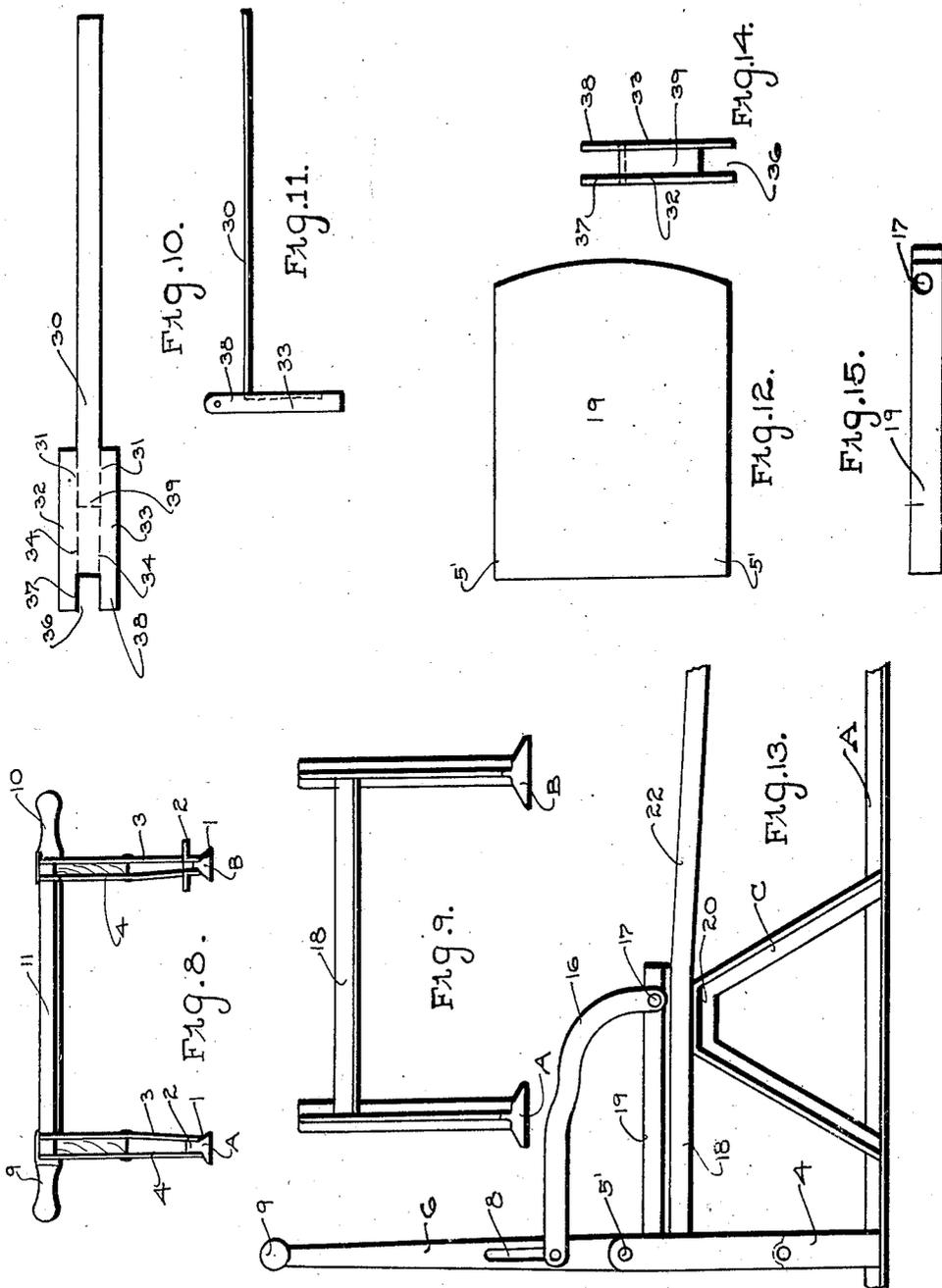
*William S. Buff* <sup>Att</sup> ATTORNEY.

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# UNITED STATES PATENT OFFICE.

AUGUST W. SKUR, OF WORCESTER, MASSACHUSETTS.

COMBINATION KICK AND BOB SLED.

1,362,902.

Specification of Letters Patent.

Patented Dec. 21, 1920.

Application filed February 9, 1920. Serial No. 357,343.

To all whom it may concern:

Be it known that I, AUGUST W. SKUR, a citizen of the Republic of Finland, and residing at the city of Worcester, in the county of Worcester and State of Massachusetts, have invented new and useful Improvements in Combination Kick and Bob Sleds, of which the following is a specification.

10 This invention relates to improvements in sleds for children and has for its object to provide a simple, inexpensive and highly efficient device of this character.

15 One of the objects of my invention is to provide in one and the same sled a combination kick sled and bob sled, whereby it will be possible for the owner of the sled to instantly convert the kick sled into a bob sled and vice versa.

20 Another object of my invention is to provide in a device as described the combination of a means for pushing the sled in such a manner that the operator may have one foot always upon the sled and the other foot on the ground, or which will also enable the operator to obtain a ride from this sled by allowing it to slide down the hill and thus act under the impulse of gravity alone.

25 Another object of my invention is to provide a sled with a chair enabling the occupant to conveniently repose his back thereagainst, this seat also providing a knock-down portion forming the top of the sled and enabling the operator to sit directly thereupon.

30 With the above and other objects in view my invention consists in the combination, arrangement and details of construction disclosed in the drawings and specification and then more particularly pointed out in the appended claims:

35 In the drawings wherein similar reference characters designate similar parts throughout the several views,

40 Figure 1 is a rear end elevation of my invention,

Fig. 2 is a side elevation thereof,

45 Fig. 3 is a fragmental side elevation thereof showing the parts in knockdown position,

Fig. 4 is a fragmental vertical view thereof,

Fig. 4<sup>a</sup> is a detail view of a chair side,

Fig. 5 is a top plan view of my invention,

Fig. 6 is a detail front view of the chair seat,

Fig. 7 is a fragmental view of the seat folded down upon the brace rods,

Fig. 8 is a front end elevation thereof, partly in section,

Fig. 9 is a front elevation of the runners,

Fig. 10 is a plan view of the sheet metal runner,

Fig. 11 is a view showing the parts of Fig. 10 in their folded position.

Fig. 12 is a detail view of the seat back,

Fig. 13 is a fragmental side elevation of my sled,

Fig. 14 is a front view of Fig. 11, and

Fig. 15 is an edge view of the seat chair.

In the drawings wherein the various parts are merely illustrative of my invention, A designates one runner, while B designates the other runner, each runner being substantially in the form of a base flange 1 having a vertical shank 2. A vertical brace or support C has two legs secured at a lower point to the runners and support at an upper point the longitudinal brace bars 22 and 21, the latter converging preferably from their inner ends to their outer ends where they join the cross bar 23 which connects the side runners A and B. A pair of guide members 3 and 4 are adapted to receive each one of the runners A and B, and more particularly the horizontally extending portions of said runners. At the upper ends of said guide members are pivots 5' upon which are fulcrumed the lower ends of vertical rods or members 6 and 7, the latter also preferably projecting within the guide members 3 and 4 as shown in Fig. 1. A handle bar 11 connects the upper ends of the rods 6 and 7 together the outer handle ends of which are designated 9 and 10. A back rest 12 is also secured between the rods 6 and 7 preferably rigid by means of the rods 13, 14 passing therethrough as well as into these rods 6 and 7. If desired, how-

ever, it is possible to slide this back rest 12 to the outer ends of the rods, and for this purpose the rods 6 and 7 will be formed with side grooves 27 in which the outer ends of the rods 13 and 14 may slidably project as shown in Fig. 6, and when the rest is slid as far down as it can go it will be seen that it will come to rest in a rigid position thereupon.

There is also provided a seat or body support 19 which rests upon the horizontal brace arms 21 and 22 and which carries pivots laterally and externally thereof as designated 17 upon which are fulcrumed the outer ends of the arm rods 16, the other ends of which arm rods are pivotally connected by pivots 15 within the slots 8 formed in the sides of the vertical rods 6 and 7, and in this manner the pivots 15 may slide in these slots. The upper portion of the brace or support C is designated 20 as shown in Fig. 13.

I also intend that the brace rods may be formed directly and solely out of a sheet metal blank as illustrated in Figs. 10, 11, and 14. The sheet metal blank is shaped as shown in Fig. 10 where it will be seen that it is provided with the long slender shank 30, and with the lateral wings or extensions 32, 33, connected to the body portion of the sheet metal blank. This body portion is cut away to form the slit or slot 36 at one end and in line with the shank 30, and this sheet metal blank will first be folded back at right angles upon the longitudinal score or fold lines 31, 34 so as to provide a pair of parallel side walls as shown by the numerals 32, 33 shown in Fig. 14; and the body portion will then be folded back upon the score or fold line 39 at a point mediate of the length of the wings 32, 33 so that when the parts are thus folded and struck up the long slender shank will be disposed as shown in Fig. 11, thus providing above the substantially horizontal brace arm 30 taking the place of the brace arm shown in Fig. 3 and designated 22 or 21, there being a pocket above this brace arm receiving the vertical rods 6 and 7 and a channel below the body portion designated 36 and receiving the runners, in a manner that will readily be understood.

In operation the parts are in normal position as shown in Fig. 2 where the device is to be used as a kick sled. The foot rest D is secured only upon one of the rear runners 23, 24 say the runner A and extends at right angles thereof. The operator will stand with one foot upon this foot rest D and hold the handles 9 and 10 with his hands and the other foot will be used as a push lever to impel the sled along. Of course another person will sit down on the portion 19 and rest his or her back against the back rest 12, thereby giving enough heft

to the vertical rods to position the handles 9 and 10 properly to be grasped by the operator with a degree of safety against folding back.

All it is necessary to do in order to convert this device into a bob sled is to fold the back support consisting of the vertical rods 6 and 7, and its back rest 12 as well as the seat rest 19 pivotally connected thereto, downwardly until the several parts will overlie one another in a compact mass and be supported upon the longitudinal or horizontal brace rods 21 and 22. It will be seen from Figs. 3 and 5 especially that when the vertical rods are swung upon the pivots 5' they will carry the arm rods 16 along with them as they swing forwardly and will thereby force the seat rest 19 connected permanently to said rods 16 to move along forwardly from portions 18 of members 21, 22 sliding upon the brace rods 21 and 22 until it reaches the position shown in Fig. 5, which figure shows that this arm rod 16 may as well be straight as well as curved as shown in Fig. 13, etc. The seat portion 19 will reach the point shown in dotted lines in Fig. 7, while the back rest 12 will occupy then the position illustrated in Fig. 7, that is the portion 19 will be disposed in advance of the portion 12. Thus arranged the sled is virtually a bob sled and of course the children may sit upon the portions 12 and 19 which form a continuous support for them. The child sitting in front may rest his legs upon the front crossbar 23 as shown in Fig. 3. Braces 5 connect braces 21, 22 to portions 3 and 4.

It will be seen that I have provided a simple, inexpensive and portable knockdown sled enabling the parts to occupy such a small size as to enter the house very readily, besides affording much more pleasure for the child than is now possible with the use of the conventional sleds.

Numerous changes may be made in practice without departing in principle from the details of construction shown herein.

What I desire to claim and seek protection on is:—

1. A device as described consisting of a pair of side frames having bottom runners, a pair of vertical rods pivotally connected at their lower ends upon said side frames, a cross arm connecting said rods at their upper ends and providing outstanding handle portions, a foot rest secured upon one side frame in back of said rods, a seat slidably supported upon said side frames, and means carried by said vertical rods and adapted to move said seat rest forwardly as the vertical rods are folded upon their pivots.

2. A device as described consisting of a pair of side frames, runners thereupon, a pair of vertical rods pivoted to said side

frames, a horizontal seat rest slidably supported upon said side frames, arm rods pivotally connected to said seat rest at the front of the latter and pivotally connected to said  
5 vertical rods so as to be carried along with said rods in a forward direction as said rods swing down upon their pivots.

In witness whereof I have hereunto set my hand and affixed my seal in the presence of two witnesses.

AUGUST W. SKUR. [L. s.]

Attested:

WILLIAM E. BAFF,  
SILAS H. LORD.