

Jan. 27, 1942.

S. SPIZER

2,270,909

SLIDE

Filed Aug. 9, 1938

2 Sheets-Sheet 1

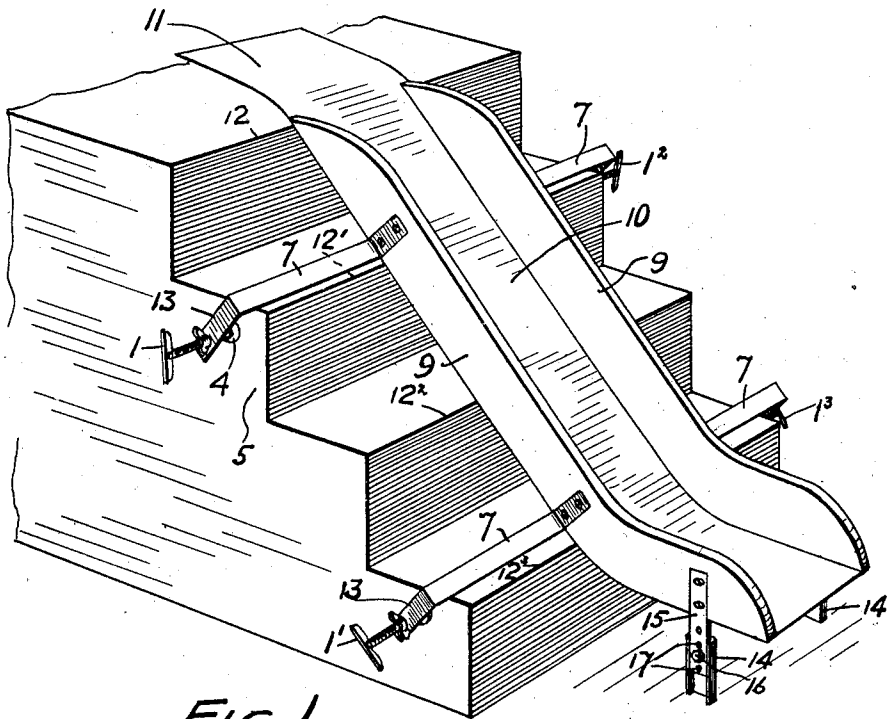


FIG. 1.

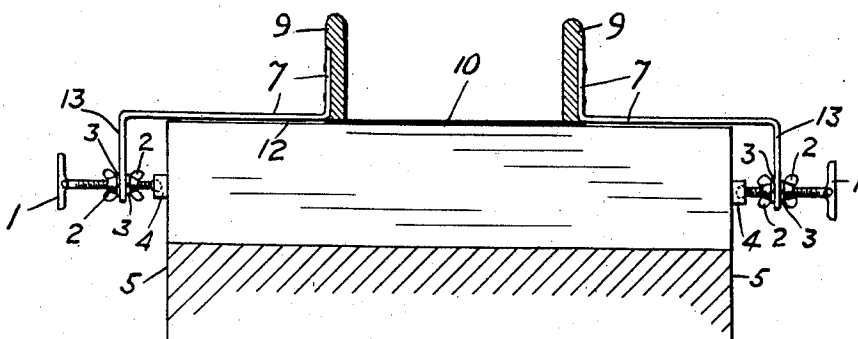


FIG. 2.

WITNESS:

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INVENTOR

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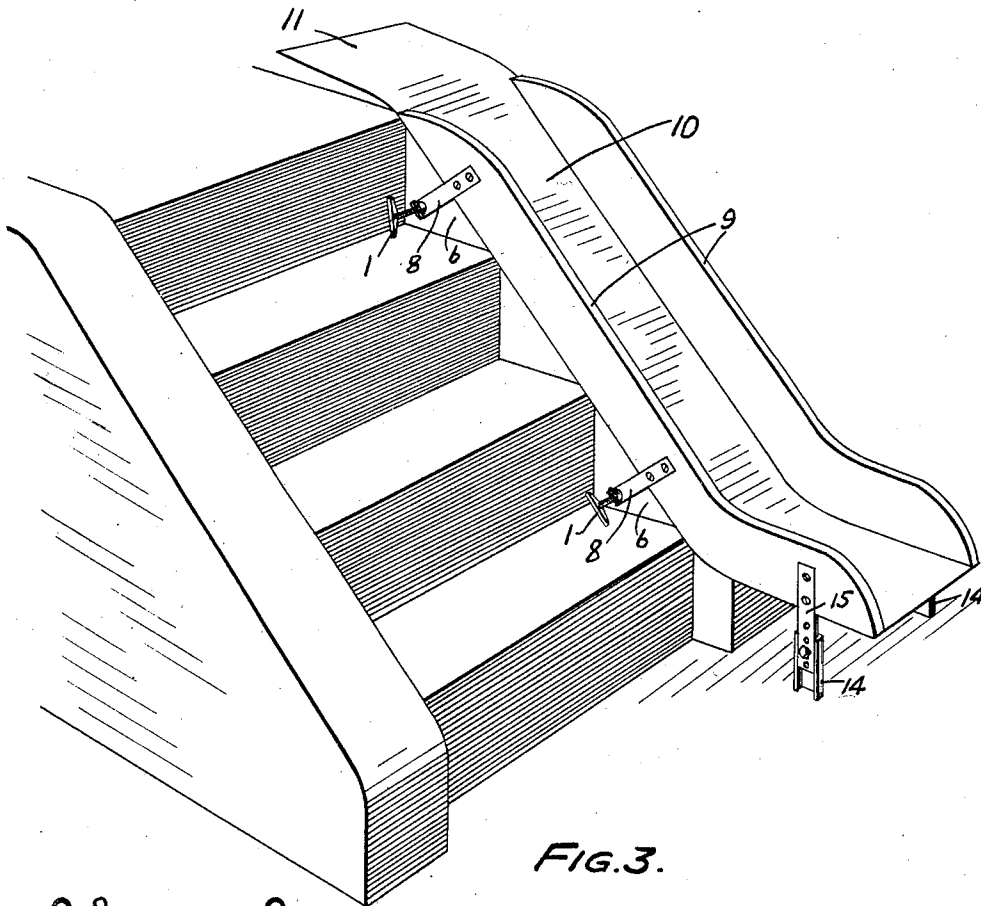


FIG. 3.

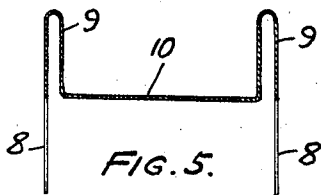


FIG. 5.

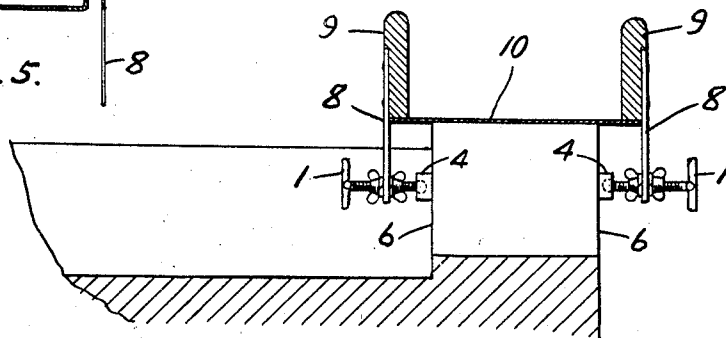


FIG. 4.

WITNESS:

Robt. R. Kitchell

INVENTOR

Danuel Spizer

UNITED STATES PATENT OFFICE

2,270,909

SLIDE

Samuel Spizer, Philadelphia, Pa.

Application August 9, 1938, Serial No. 223,894

14 Claims. (Cl. 272—56.5)

My invention relates to improvements in exercising and amusement slides particularly adapted for small children. The objects of my improvements are, first, to provide an easy method of adjusting and connecting a slide to a flight of steps in front of a house; secondly, to provide mechanical means whereby it will be impossible for the children using it to upset the slide, or in any way push it away from its original set position; thirdly, to provide an easy method of disconnecting the slide from the steps, or from the cheek of the steps, when the owner wants to put the slide into his house; and fourthly to utilize the firm and strong foundation of the steps, or of the cheek of the steps, to support the slide throughout most of its length.

I attain these objects by mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view of the slide when placed on a flight of steps that does not have a cheek.

Figure 2 is a view of the side bracket as it clamps against the side of the steps.

Figure 3 is a view of the slide when placed on the cheek of a flight of steps.

Figure 4 is a view of the side bracket as it clamps against the sides of the cheek.

Figure 5 is a view showing an all-metal slide with the bed of the slide continued and bent over on the sides to make side rails for the slide, and having a continuation of same metal to form brackets for insertion of clamp screws to be tightened against the steps, or against the sides of the cheek of the steps.

Similar numerals refer to similar parts throughout the several views.

In making use of the slide on a flight of steps as in Figures 1 and 2, the operator making the adjustments and connections, lifts the slide and places it on the steps, so that the top end of the slide's side rail 9 is slightly above the edge of the top step 12 and that will make the top piece of the metal bed 11 fit and rest on the top of the highest step. Now the operator turns the T-head clamp screw 1 until the ball and socket head 4 touches the side of the step 5. He then adjusts the two wing nuts 2 against the lock washers 3 and locks them against the bar 13 and that keeps the T-head clamp screw 1 from loosening or turning. He then adjusts in the same manner an identical clamp on the bottom left side of the slide. When this is done, he moves to the right side of the slide and tightens the T-head 12 clamp screw very firmly against the side of the step. He now tightens the wing nuts 2 against the lock washers 3 which are

pressed and locked against bar 13. He now goes to the bottom right clamp 13 and adjusts it in the same identical manner that he adjusted clamp 12. The operator now adjusts the bottom legs by taking out the bolt 16 and allowing the double flanged piece of metal 14 to slide down along the sides of the bar 15 until it hits the ground. At this point, the operator takes the bolt 16 and places it into the hole in bar 15 and through a corresponding hole in the bar 14. He then puts the nut on the bolt and that leg is set. He then does the same thing with the other leg and has both legs touching the ground giving extra support. After all the adjustments and connections are made the sheet metal bed 10 will rest on the points of the steps 12, 12¹, 12², and 12³ thus giving the entire slide added strength and support.

When the operator wants to disconnect the slide from the steps, he unloosens the two wing nuts 2 on the top right side clamp 12 and this unloosens the lock washers 3 on either side of bar 13. This now allows the T-head clamp screw 12 to be turned and loosens the ball and socket head 4 from the sides of the steps 5. He now does the same with the bottom right side clamp 13. Now the operator can lift the slide and carry it into his house. It being understood that the slide can be released from the steps by releasing clamps 1 and 1¹, or if preferred, clamps 12 and 13.

When the operator uses the slide a second time, he is saved the necessity of adjusting all four clamps. Instead he presses the two clamps on one side of the slide, for instance 1 and 1¹ against the side of the steps 5 and then makes a few turns on the top right clamp 12 and when the clamp is tightly screwed against the step, he tightens the wing nuts 2 against the lock washers 3 which close against bar 13. He then tightens the right bottom clamp 13 in the same manner as the top right clamp 12. As the legs have already been adjusted for the previous use of the slide, it is not necessary to adjust them again on the same set of steps.

In adjusting the slide to the cheek 6 of a flight of steps as shown in Figures 3 and 4, the slide is placed on the cheek of the steps, and the continuation of the bed of the slide 11 will rest on the horizontal section of the cheek. The clamps are then used in exactly the same manner that they were used in Figures 1 and 2. The only difference in this case is that the clamps are fitted and clamped to the sides of the cheek, instead of to the sides of the steps. The legs are also adjusted exactly as the legs were adjusted on the slide shown in Figure 1.

The method of using the slide is exactly the same for the two arrangements of the slide. The child sits down on the metal 11 and by moving slightly forward, slides down on the bed 10 until she reaches the bottom edge of the slide. She places her feet on the ground, stands up, and walks up the flight of steps to get a second chance on the slide. The child may hold the side rails 9 throughout her entire slide down the slide as there are no protruding nuts, bolts or brackets of any kind.

The slide as shown in Figures 1 and 2, is made of a metal bed 10 attached to wooden side rails 9, and has side brackets 7 with the downward bend of this bracket 13 holding in place the clamp 1. However, this same arrangement can be made by stamping out of one sheet of heavy metal. This is shown in Figure 5, where the bed 10, and the side rails 9, and the brackets 8 for the receiving of the clamp screw are all made from one and the same sheet of metal.

While the form of embodiment of the invention as herein disclosed constitutes the preferred form, it is to be understood that other forms might be adopted, all coming within the scope of the claims which follow.

I claim as my invention:

1. A children's slide comprising an inclined body member; a substantially horizontal rest member formed on said body member near the upper end thereof; and at least one vertically adjustable leg attached to the lower end of said body member.
2. A children's slide comprising an inclined body member; a substantially horizontal rest member formed on said body member near the upper end thereof; and a pair of vertically adjustable legs attached to the lower end of said body member.
3. A children's slide comprising an inclined body member; a substantially horizontal rest member formed on said body member near the upper end thereof; and a pair of legs attached to the lower end of said body member, each of said legs consisting of an element fixed to said body member, and an element movable relatively to said fixed element.
4. A children's slide comprising an inclined body member; a substantially horizontal rest member formed on said body member near the upper end thereof; and a pair of legs attached to the lower end of said body member, each of said legs comprising a plurality of telescoping elements movable relatively to each other and means for locking said telescoping elements against movement relatively to each other.
5. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; adjustable supporting means attached to the lower end of said body member; and adjustable clamps carried by said body member.
6. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; a pair of vertically adjustable legs attached to the lower end of said body member; and a plurality of adjustable clamps carried by said body member.
7. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; a pair of legs attached to the lower end of said body member, each of said legs consisting of an element fixed to said body member and a second element movable relatively to said fixed element; and a plurality of adjustable clamps carried by said body member.
8. A children's slide comprising an inclined body member; a substantially horizontal rest member formed on said body member near the upper end thereof; a pair of legs attached to the lower end of said body member, each of said legs comprising a plurality of telescoping elements movable relatively to each other and means for locking said telescoping elements against movement relatively to each other; and a plurality of adjustable clamps carried by said body member.
9. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; and two spaced supporting members attached to said body member at the lower end thereof, at least one of said supporting members comprising a fixed upper element, a second element movably attached to said fixed upper element, said movable element being movable independently of and relatively to the other of said spaced supporting members.
10. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; and two spaced legs attached to said body member near the lower end thereof, at least one of said legs comprising a fixed upper element and an element telescoping with and movable relatively to said fixed upper element, said movable element being movable entirely independently of and relatively to the other of said spaced legs.
11. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; two spaced legs attached to said body member near the lower end thereof, at least one of said legs comprising a fixed upper element and an element telescoping with and movable relatively to said fixed element, said movable element being movable independently of and relatively to the other of said spaced legs; and means for locking said telescoping elements against movement relatively to each other in any one of a number of predetermined positions.
12. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; a plurality of adjustable clamps carried by said body member intermediate the upper and lower ends thereof; and two spaced supporting members attached to said body member at the lower end thereof, at least one of said supporting members comprising a fixed upper element and a second element movably attached to said fixed upper element, said movable element being movable independently of and relatively to the other of said spaced supporting means.
13. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; a plurality of adjustable clamps carried by said body member intermediate the upper and lower ends thereof; and two spaced legs attached to said body member near the lower end thereof, at least one of said legs comprising a fixed upper element and an element telescoping with and movable relatively to said fixed upper element, said movable element

being movable entirely independently of and relatively to the other of said spaced legs.

14. A children's slide comprising an inclined body member; a substantially horizontal rest member attached to said body member at the upper end thereof; a plurality of adjustable clamps carried by said body member intermediate the upper and lower ends thereof; two spaced legs attached to said body member near the lower end thereof, at least one of said legs

comprising a fixed upper element and an element telescoping with and movable relatively to said fixed element, said movable element being movable independently of and relatively to the other of said spaced legs; and means for locking said telescoping elements against movement relatively to each other in any one of a number of predetermined positions.

SAMUEL SPIZER.