LE ROY WILLOUR.

SLIDE PLAYGROUND APPARATUS.

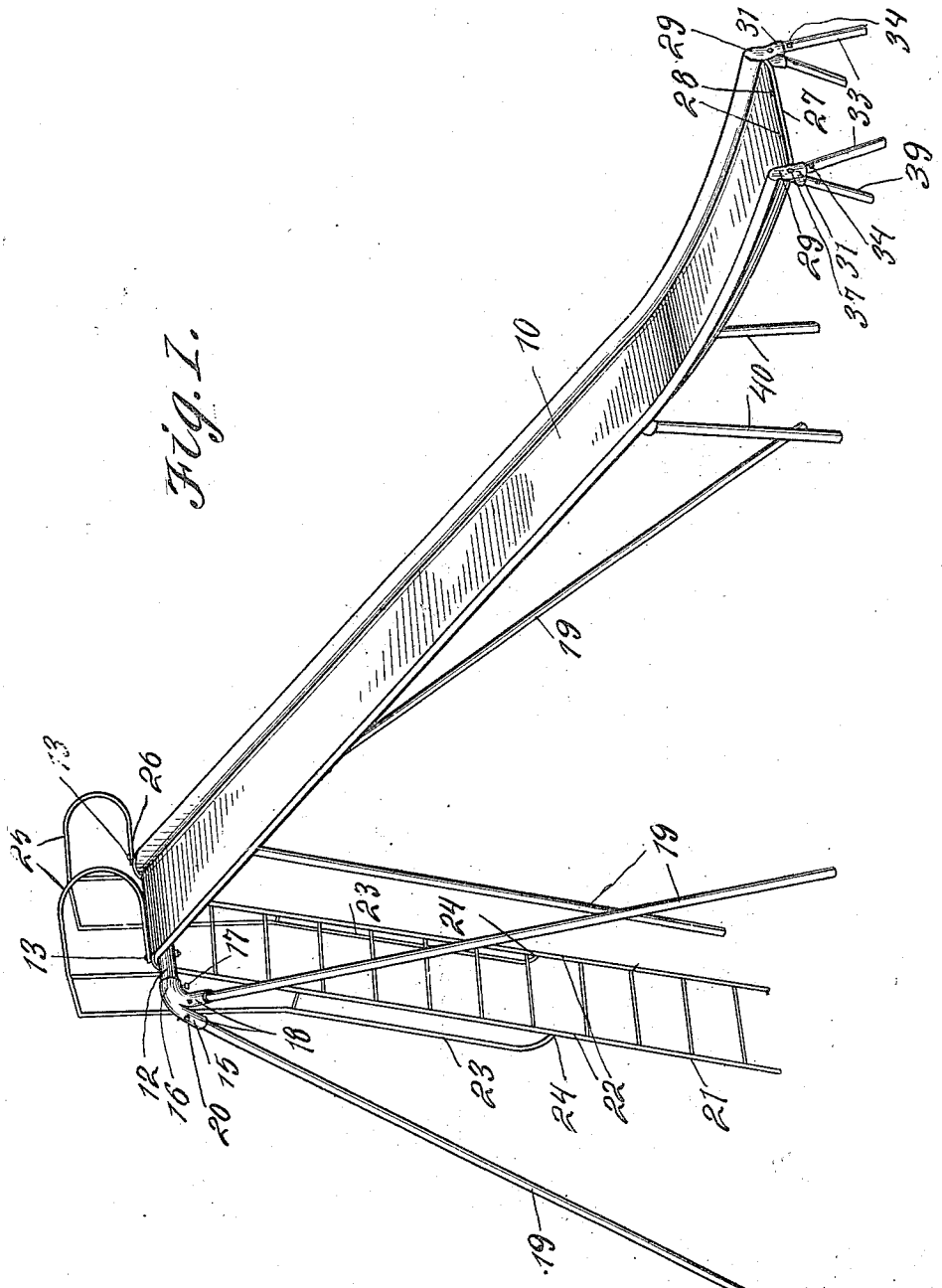
APPLICATION FILED NOV. 19, 1914.

1,161,098.

Patented Nov. 23, 1915.

2 SHEETS—SHEET 1.

Fig. 1.



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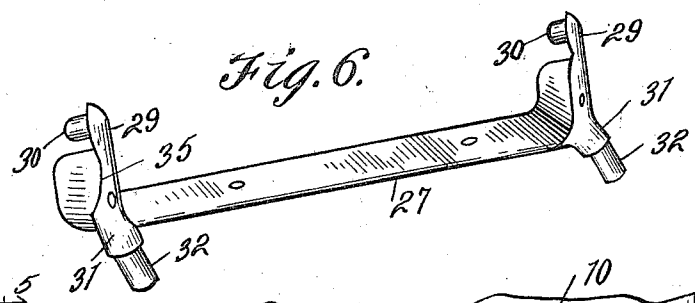
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2 SHEETS—SHEET 2.

Fig. 6.



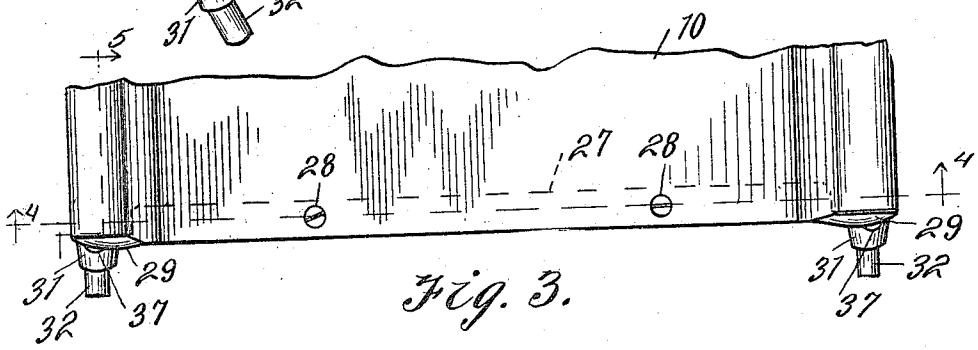


Fig. 3.

Fig. 4.

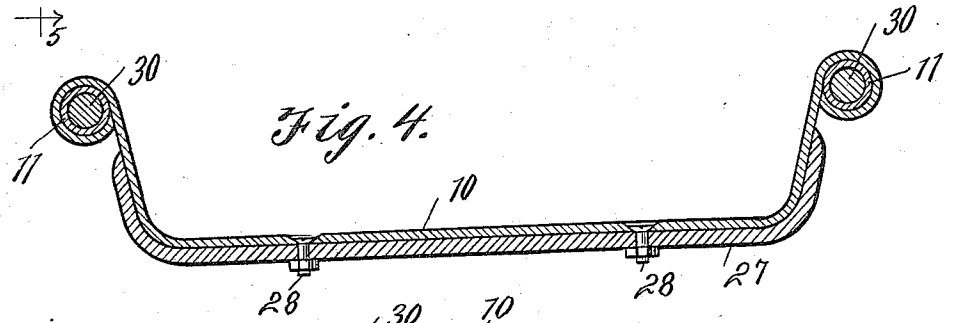


Fig. 5.

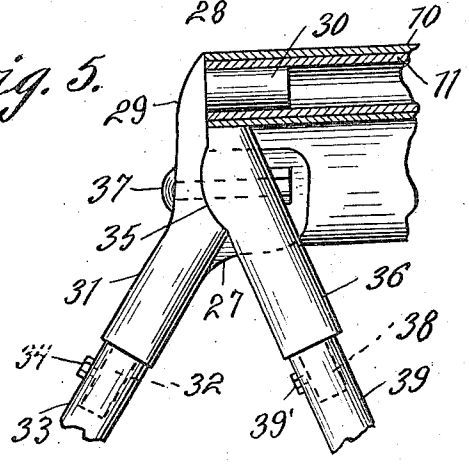
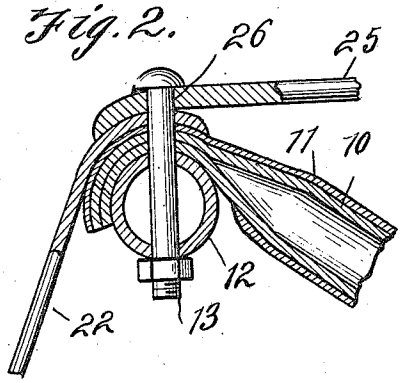


Fig. 2.



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UNITED STATES PATENT OFFICE.

LE ROY WILLOUR, OF ASHLAND, OHIO.

SLIDE PLAYGROUND APPARATUS.

1,161,098. Specification of Letters Patent. Patented Nov. 23, 1915.

Application filed November 19, 1914. Serial No. 873,041.

To all whom it may concern:

Be it known that I, LE ROY WILLOUR, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Ohio, have invented certain new and useful Improvements in Slide Playground Apparatus, of which the following is a specification.

My invention relates to play-ground apparatus for children, and has particular reference to improvements in slides or chutes or the like.

An important object of the invention is to provide apparatus of the above mentioned character, which is simple in construction, inexpensive to manufacture, strong, durable, and safe to use.

A further object of the invention is to provide apparatus of the above mentioned character, which is formed of few and simple parts, which may be readily assembled and disconnected.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same, Figure 1 is a perspective view of a slide apparatus embodying my invention, Fig. 2 is an enlarged transverse section taken through the upper end of the apparatus, showing the manner in which the chute is connected with the support, Fig. 3 is a fragmentary plan view of the chute, Fig. 4 is a transverse sectional view taken on line 4—4 of Fig. 3, Fig. 5 is a detail longitudinal section taken on line 5—5 of Fig. 3, and, Fig. 6 is a perspective view of a transverse supporting member.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 10 designates a longitudinally inclined chute or body supporting member, which is preferably formed of a strip of sheet or plate metal, such as aluminum, having a smooth upper surface, while other material may be employed. The longitudinal edges of the chute 10 are bent or rolled about longitudinally inclined supporting rods, tubes or pipes 11, and are secured thereto by such bending.

The numeral 12 designates a transverse supporting rod, tube or pipe, more clearly shown in Fig. 2, having the upper ends of the longitudinal supporting rods or tubes 11 bent thereabout. The transverse rod or tube 12 and the upper ends of the rods 11 are apertured for receiving bolts 13, as shown.

The numeral 15 designates an inverted forked or Y-shaped coupling, having a tubular portion 16, fitting upon the end of the transverse rod 12, and rigidly clamped thereto by means of a bolt 17 or the like. Each coupling 15 includes a pair of depending diverging tubular arms 18, receiving the upper ends of preferably tubular supporting legs 19, diverging downwardly, as shown. The tubular arms 18 are preferably provided with clamping bolts 20.

The numeral 21 designates a ladder, having its longitudinal bars 22 extending above and bent about the upper ends of the rods 11, the upper ends of the same being apertured for receiving the bolts 13. Hand rails 23 extend longitudinally of the upper portion of the ladder, with their lower ends attached to the longitudinal bars 22, at 24. The upper portions 25 of the hand rails have their ends apertured, as shown at 26, for receiving the bolts 13, the same being disposed upon the upper ends of the bars 22. It is obvious that the bolts 13 secure the supporting rods or pipes 11, the longitudinal bars 22, and the rails 23 to the transverse support or rod 12.

As clearly shown in Figs. 4 to 6 inclusive, the numeral 27 designates a transverse support or casting, arranged near and below the lower end of the chute 10. This casting is attached to the lower end of the chute by countersunk screws or bolts 28. The support 27 is approximately U-shaped, the same having upwardly extending portions 29, carrying extensions or trunnions 30, adapted for insertion within the lower ends of the tubular rods or pipes 11. At its ends and adjacent the upstanding portions 29, the support 27 carries depending attaching members 31, provided with reduced extensions 32, adapted to be inserted within the upper end of short legs 33, and to be clamped therein by bolts 34 if desired. Each of the depending extensions 31 is provided with a recess or socket 35 (see Fig. 5) to receive the upper portion of a coacting attaching member 36, these elements being rigidly connected by means of a bolt 37 passing through the same, as shown. The attaching member 36 is provided with a re-

duced extension 38 to be inserted within a short leg 39, (as shown) and clamped thereto by a bolt 39'

The numeral 40 designates intermediate legs, arranged below and engaging the chute 10 between the long and short legs, the same being connected therewith by any suitable means.

In the use of the apparatus, the children or the like, climb up the ladder 21 and by means of the extensions 25 of the rails, may conveniently sit upon the upper end of the chute, and upon releasing the rails they slide down the chute.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described the invention, I claim:—

1. In apparatus of the character described, a support embodying a transverse approximately horizontal member, spaced inclined rods having their upper ends engaging the upper side of the approximately horizontal member, a ladder having the upper ends of its sides engaging the upper ends of the rods, a rail connected with the ladder and extending longitudinally thereof and having its upper end engaging the upper ends of the sides of the ladder, a bolt passing through each set of said upper ends and the approximately horizontal member, and a body supporting member attached to the inclined rods.

2. In apparatus of the character described, a plurality of spaced inclined rods having their corresponding ends provided with openings, a support carrying trunnions entering the openings, means connected with the support to hold the same suitably elevated, a body supporting member attached to the inclined rods, and means to support the opposite corresponding ends of the inclined rods.

3. In apparatus of the character described, longitudinally inclined spaced tubes, a body supporting member attached to the tubes, a transverse support extending across the body supporting member and provided with extensions which enter the tubes, a plurality of legs connected with the transverse support, and means for supporting the opposite ends of the tubes.

4. In apparatus of the character described, longitudinally inclined spaced tubes, a chute between and attached to the tubes, a transverse support disposed adjacent corresponding ends of the tubes beneath the strip of sheet metal and provided with upwardly extending portions carrying trunnions entering the ends of the tubes, legs attached to the supports, and means to support the opposite end of the tubes.

5. In apparatus of the character described, longitudinally inclined spaced tubes, a section of sheet metal extending between and engaging the tubes, a transverse support disposed adjacent corresponding ends of the tubes and beneath the strip of sheet metal and provided with upwardly extending portions carrying trunnions entering the ends of the tubes, depending attaching members secured to the transverse support, tubular legs receiving portions of the depending attaching members, and means to support the opposite end of the longitudinal tubes.

6. In apparatus of the character described, longitudinally inclined spaced tubes, a section of sheet metal extending between and engaging the tubes, a transverse support disposed adjacent corresponding ends of the tubes and beneath the strip of sheet metal and provided with upwardly extending portions carrying trunnions entering the ends of the tubes, depending attaching members secured to the transverse support and provided with laterally disposed recesses and having reduced extensions, tubular legs receiving the reduced extensions of the attaching members, coacting attaching members provided with lateral projections to enter the recesses and having reduced extensions, bolts connecting the attaching members, tubular legs receiving the reduced extensions of the coacting attaching members, and means to support the opposite ends of the longitudinal tubes.

7. In apparatus of the character described, a transverse supporting rod, a substantially Y-shaped coupling arranged upon each end of the rod and having depending tubular arms, downwardly converging legs having their upper ends inserted within the tubular arms, longitudinally inclined rods having their upper ends bent about the supporting rod and attached thereto, and a chute arranged between the longitudinally inclined rods and attached thereto.

In testimony whereof I affix my signature in presence of two witnesses.

LE ROY WILLOUR.

Witnesses:
CLYDE C. SHERICK,
J. R. RYDER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."