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M. B. SMITH

2,017,170

GLIDER FRAME

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Fig. 1

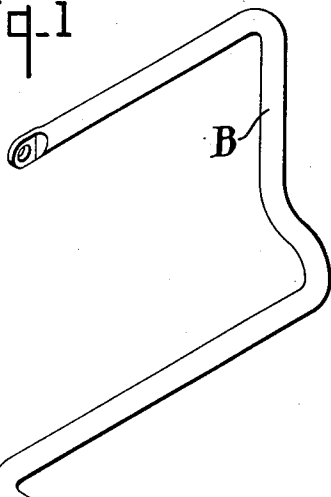


Fig. 3

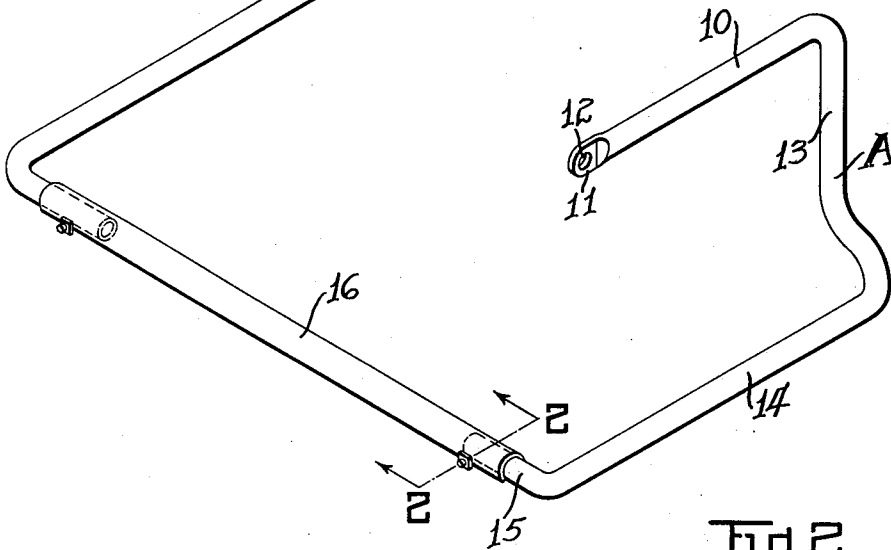
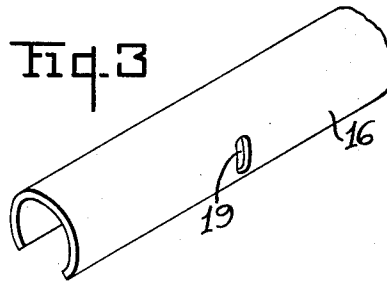


Fig. 4

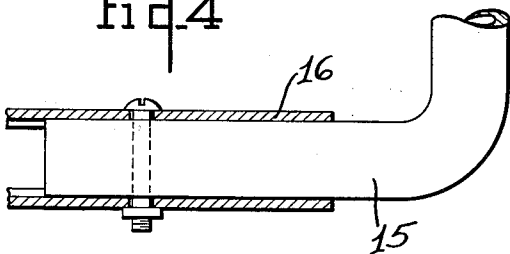
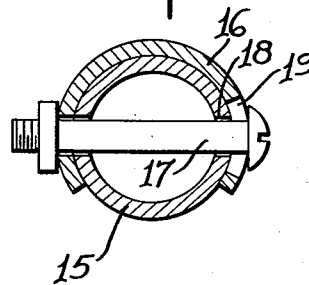


Fig. 2



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## UNITED STATES PATENT OFFICE

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## GLIDER FRAME

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## 1 Claim. (Cl. 5—129)

This invention relates to articles of furniture, but more particularly to frame constructions for gliders, and an object is to produce a simple and efficient frame of this character which has the new and improved features of construction, arrangement and assembly hereinafter described.

For purposes of illustration, but not of limitation, an embodiment of the invention is shown on the accompanying drawing, in which:

Figure 1 is a perspective view of the glider frame;

Figure 2 is a transverse section on the line 2—2 of Figure 1 showing the connection between the rail and end members;

Figure 3 is a perspective view of an end portion of the connecting rail; and

Figure 4 is a bottom plan view partly in section of a portion of the connecting rail showing its connection to an end frame.

The illustrated embodiment of the invention comprises a tubular glider frame consisting of upright end pieces A and B. Each end piece consists of a horizontally disposed arm 10, one end 11 of which is flattened and provided with a hole 12 to receive a hanger device, from which the glider is suspended, another suspension or hanger device being disposed forwardly thereof in the usual manner. It will be observed that the inner end of the arm 10 is free, and secured to the forward end thereof is a vertically disposed leg 13, which is integral with the arm 10. Integrally connected at the lower end of the leg 13 is a rearwardly extending base portion 14, which terminates at a point in rear of the free end of the arm 10 and is disposed in substantially parallel relation to the arm 10. Integral with and extending inwardly at substantially right angles to the base portion 14 is a relatively short arm or extension 15, which is adapted to rest upon the supporting surface.

It will be noted that the arms 15 of the end pieces A and B extend toward each other. These parts are joined by a connecting bar or rail 16, which is substantially U-shaped in cross-section, as indicated in Figure 2, and fits at its ends snugly over the adjacent extensions or arms 15. As shown in Figure 2, the extension 15 rests on the supporting surface, the connecting rail fitting over the tubular extensions 15, but being free from contact with the supporting surface.

Gliders are usually made up of different lengths, and heretofore with tubular gliders it has been necessary to provide a frame individual to each glider, but according to this invention it is possible to utilize the same end pieces A and B regardless of the length of the glider, the only change being in the length of the connecting rail 16. This arrangement also enables the frame to be readily and conveniently packaged for ship-

ment, it being possible to package not only the frame but the glider seat and back parts.

The U-shaped connecting arm is secured to the arms 15 by nuts and bolts 17, which extend through openings 18 in the arms 15 and openings 19 provided in the rail 16. One of the holes 19 at each end of the rail is enlarged to enable the openings to be readily lined up and to compensate for irregularities. It is apparent that this frame can be readily set up into position of use by merely setting up the end frames A and B, which can stand by themselves, and then fitting over the connecting rail, which is secured in place by two bolts. It will be apparent that the rail 16 merely provides the connection between the two extensions, the latter providing ample support for the glider.

An outstanding characteristic of this invention resides in the provision of end supporting frames, which are adapted to stand by themselves and receive the weight of the glider suspended therefrom. Such end frames are connected by a connecting rail which can be readily mounted in place or disconnected, and this rail serves as a connection to hold the end supporting frames in position of use, but are not so disposed as to take the weight of the glider. As above pointed out, such connecting rail enables the production in a ready and convenient manner of a glider frame of any desired size by selecting a connecting rail of the desired length. This also provides the demountable frame which can be conveniently packaged along with the glider parts.

It is to be understood that numerous changes in details of construction and arrangement may be effected without departing from the spirit of the invention, especially as defined in the appended claim.

What I claim as new and desire to secure by Letters Patent is:

A glider frame comprising end pieces, each consisting of a horizontal arm portion having one end free, a leg extending downwardly from the opposite end of said arm portion, a base part secured at one end to the lower end of said leg and extending rearwardly in substantially parallel relation to said arm portion and terminating at a point beyond the free end thereof, and a relatively short inwardly extending tubular portion on the rear end of said base portion and arranged at substantially right angles thereto, a rail having substantially U-shaped end portions adapted to fit respectively over and partially embrace said inward extensions, said extensions resting on the supporting surface but said rail being free therefrom, and detachable means for securing said U-shaped end portions to said extensions.

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