No. 848,114. PATENTED MAR. 26, 1907.

F. MEDART.

GYMNASIUM LADDER.

APPLICATION FILED APR. 9, 1906.

Fig. 2.

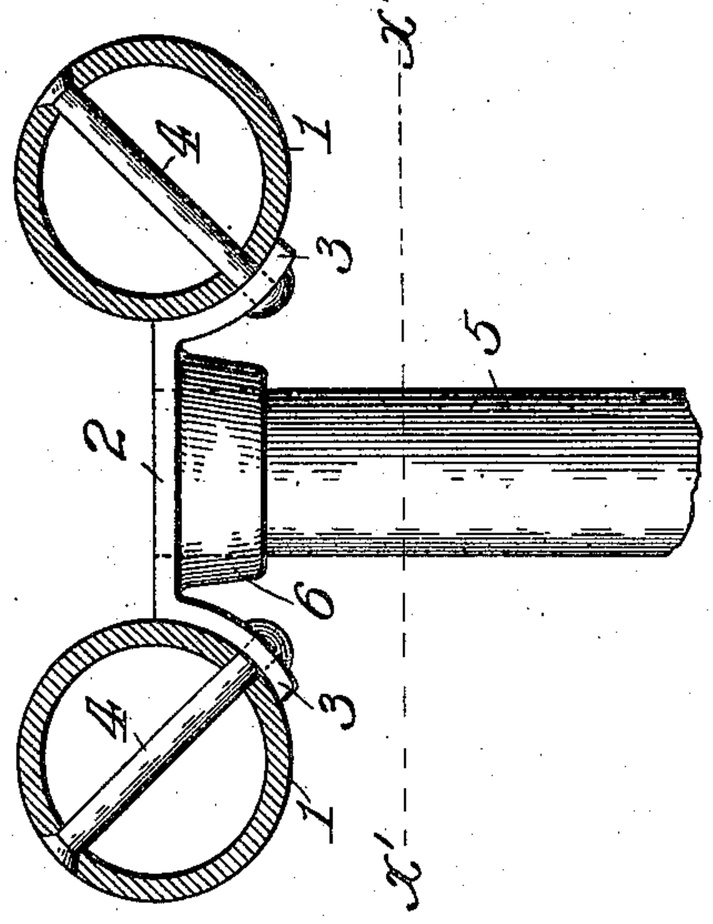


Fig. 3.

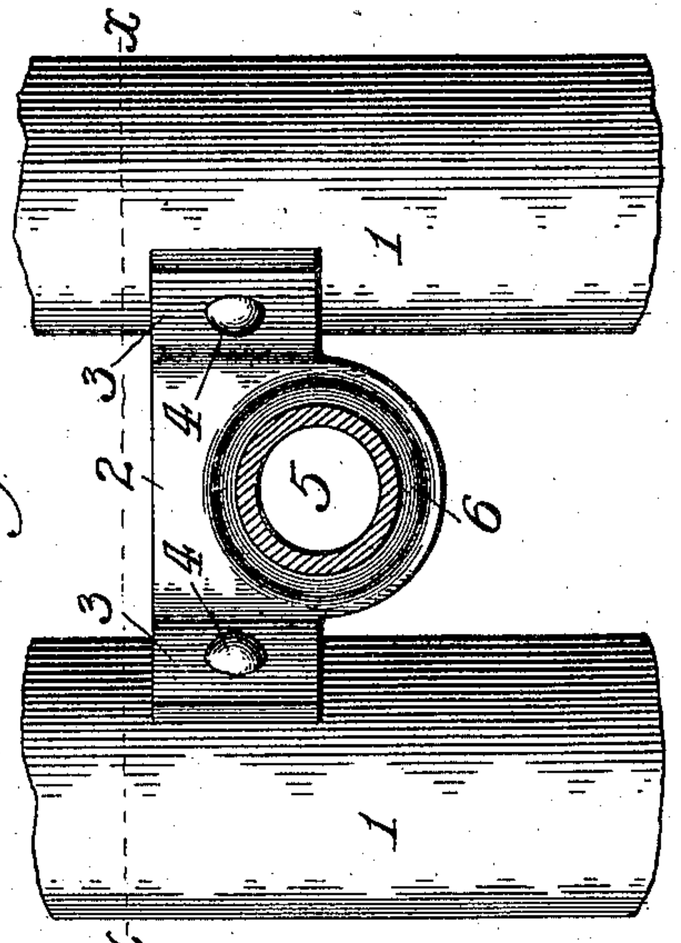
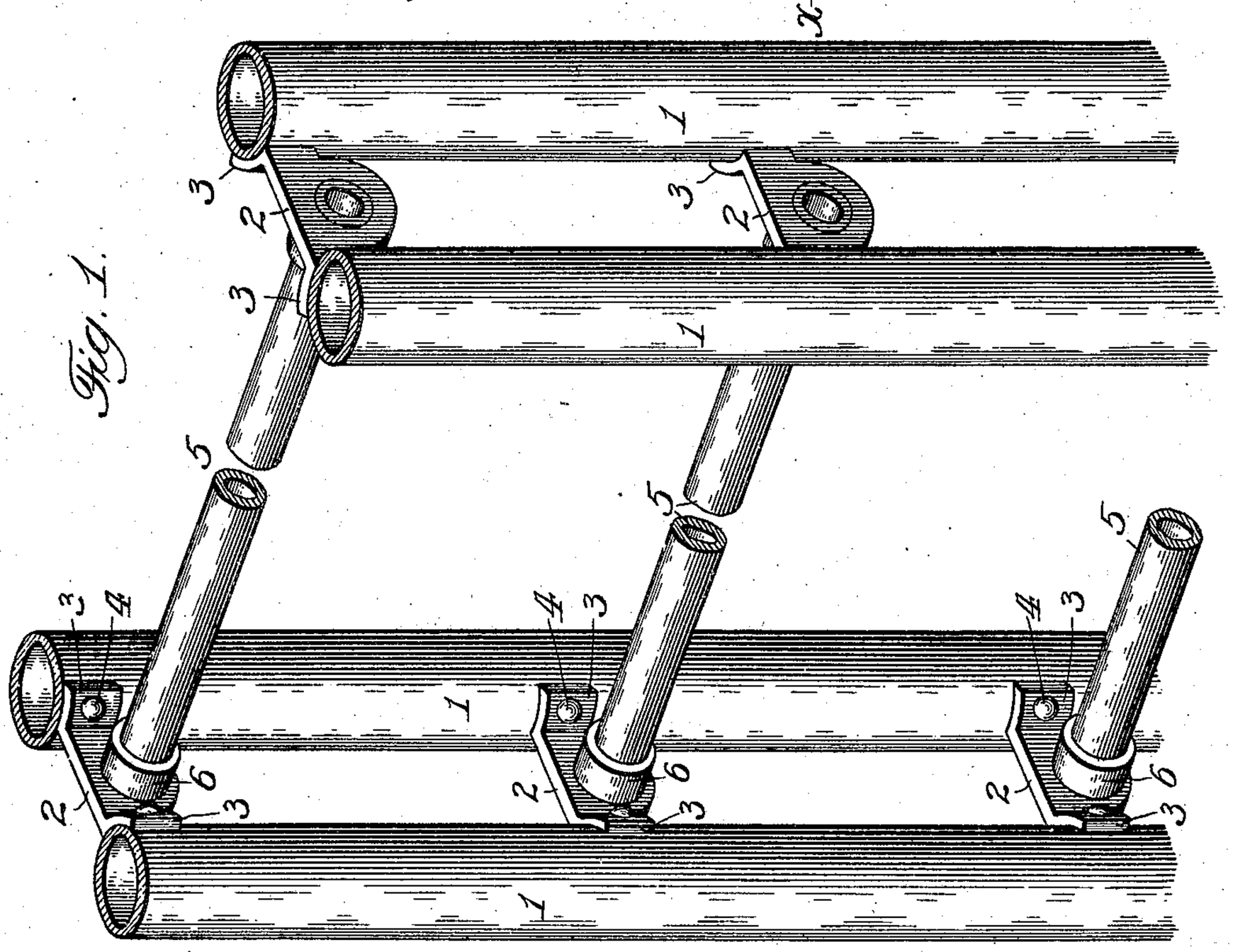


Fig. 1.



Attest:

John Enders.

M. H. Holmes.

Inventor:

Frederick Medart,

by Robert Burns

Attorney.

UNITED STATES PATENT OFFICE.

FREDERICK MEDART, OF ST. LOUIS, MISSOURI.

GYMNASIUM-LADDER.

No. 848,114. Specification of Letters Patent. Patented March 26, 1907.

Application filed April 9, 1906. Serial No. 310,595.

To all whom it may concern:

Be it known that I, FREDERICK MEDART, a citizen of the United States of America, and a resident of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Gymnasium-Ladders, of which the following is a specification.

This invention relates more particularly to that class of ladders employed in outdoor gymnastic exercises, and has for its object to provide a simple and efficient structural formation and combination of parts adapted to afford a very strong, substantial, and economical construction, all as will hereinafter more fully appear.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a ladder embodying the present invention. Fig. 2 is a detail horizontal section of the same on line $x\,x$, Fig. 3. Fig. 3 is a detail vertical section of the same on line $x'\,x'$, Fig. 2.

Similar numerals of reference indicate like parts in the several views.

Referring to the drawings, 1 are a series of side rails grouped together in pairs having a separated relation in one direction, and which pairs in turn have a separated relation in the other direction to constitute the respective side rails of a ladder. Said side rails 1 may be formed of any suitable material and of circular shape in cross-section. It is, however, preferable to employ metal tubes of a circular cross-section as affording combined durability, strength, and lightness.

2 are a series of tie or clamping plates or members located between the side rails at the inner side thereof by which the aforesaid pairs of side rails 1 are connected together intermediate of their length, such arrangement affording strength and rigidity to the structure. In the preferred form of the said plates, as shown in the drawings, the plates are formed with flat outer faces, and short segmental flanges 3 will be formed at the respective ends of said plates, and rivet-bolts 4 or like attaching means will be employed to secure the parts together.

5 are the ladder-rounds of any suitable material, preferably metal tubing, as shown, and which are secured at their respective ends to the middle portions of the aforesaid tie-plates 2, preferably by means of the centrally-arranged nipples 6 thereon, as shown.

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

1. A gymnasium-ladder comprising pairs of side rails of circular shape in cross-section, tie-plates fitting between the rails at the inner side thereof and formed with flat outer faces and short segmental flanges fitting against the rounded faces of the rails and means for fastening the tie-plates by their short segmental flanges to the side rails.

2. A gymnasium-ladder comprising pairs of side rails of circular shape in cross-section, tie-plates fitting between the side rails at the inner side thereof so as to leave the outer sides and front and back of the side rails unobstructed, and formed with flat outer faces and short segmental flanges fitting against the inner sides of the rounded faces of the side rails, means for fastening the tie-plates by their short segmental flanges to the side rails, and rounds secured to the tie-plates between the front and back side rails of each pair of side rails.

Signed at St. Louis, Missouri, this 5th day of April, 1906.

FREDERICK MEDART.

Witnesses:
JOHN C. LOERCH, Jr.,
H. HAEFNER.