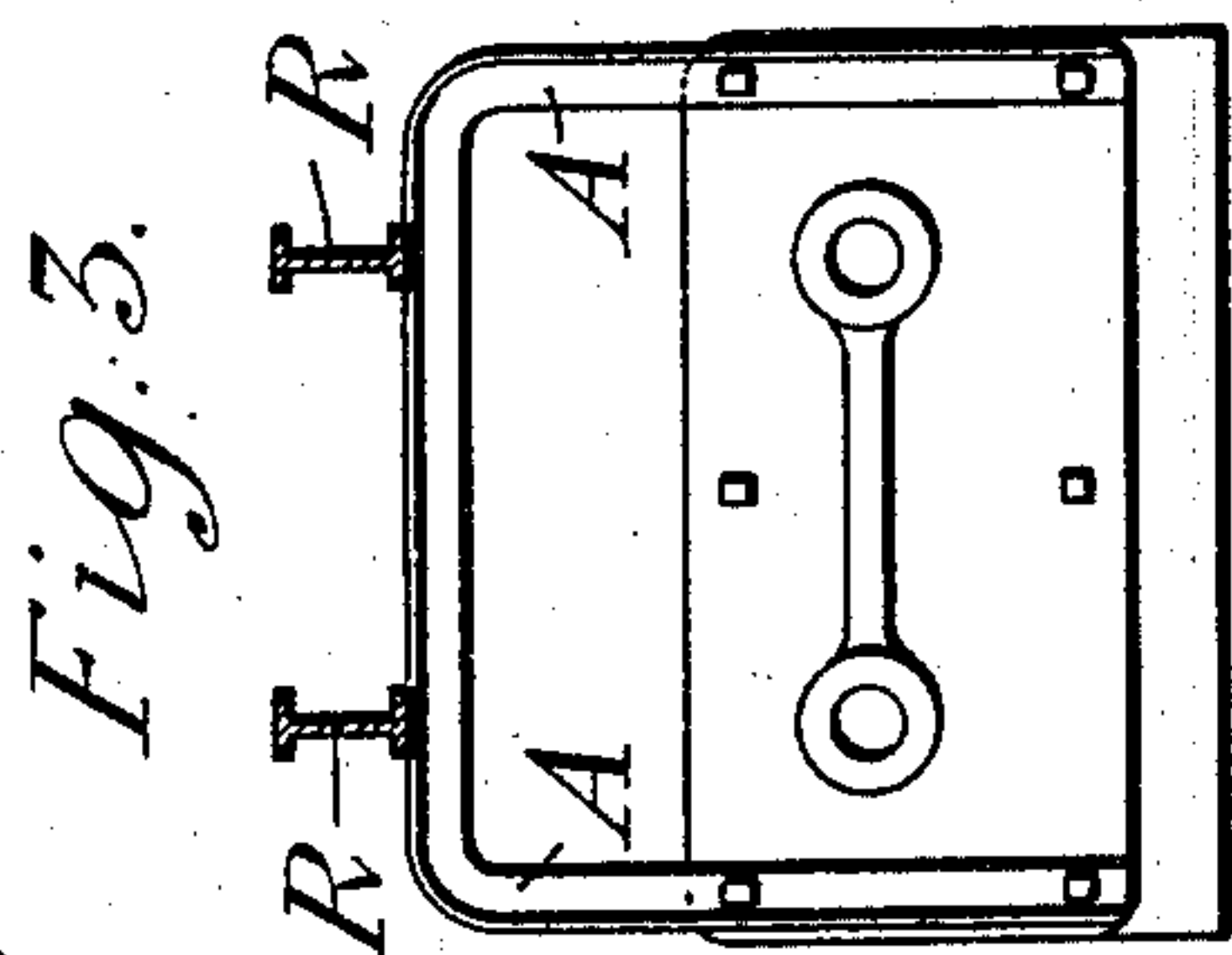
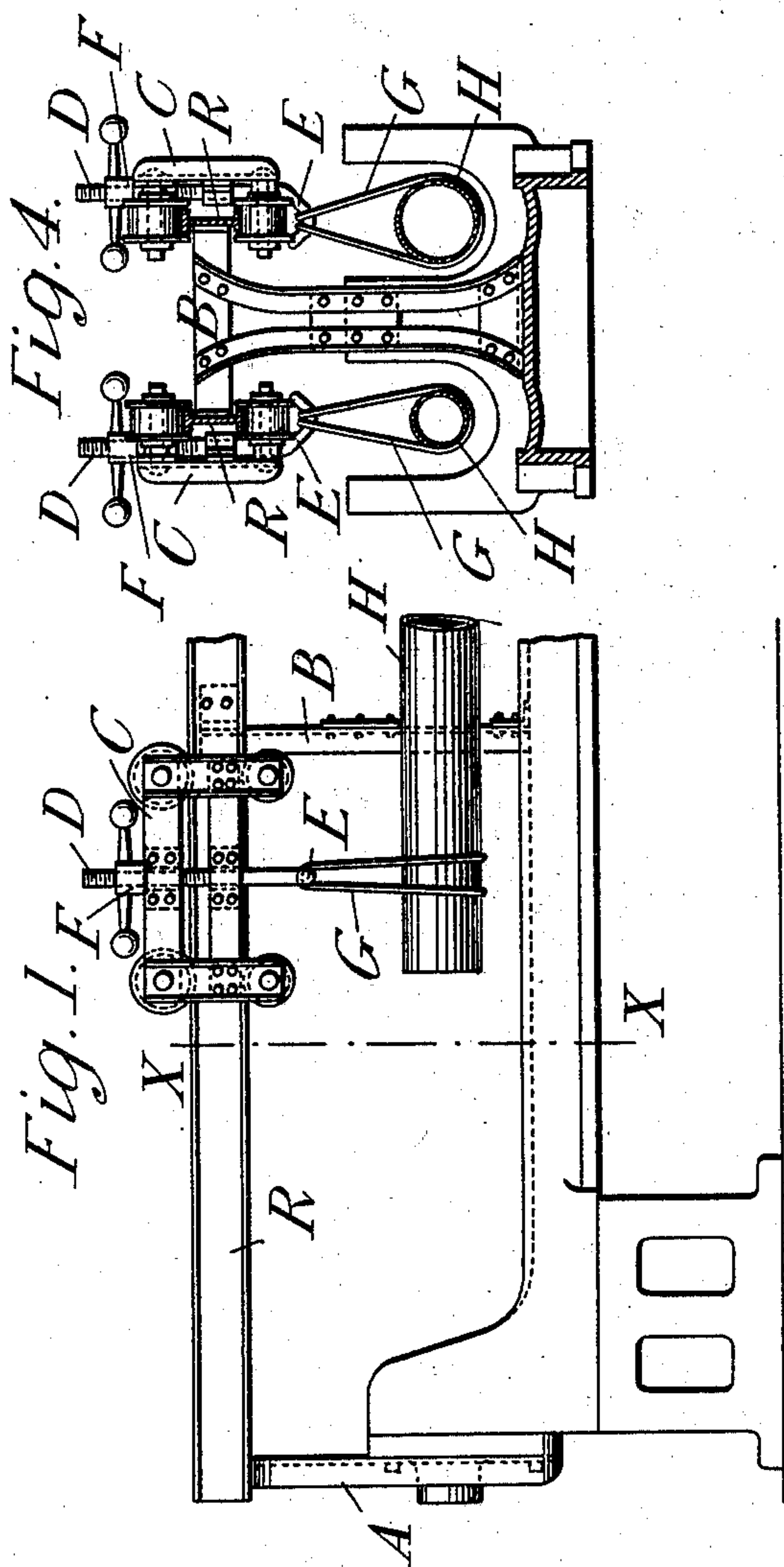


(No Model.)

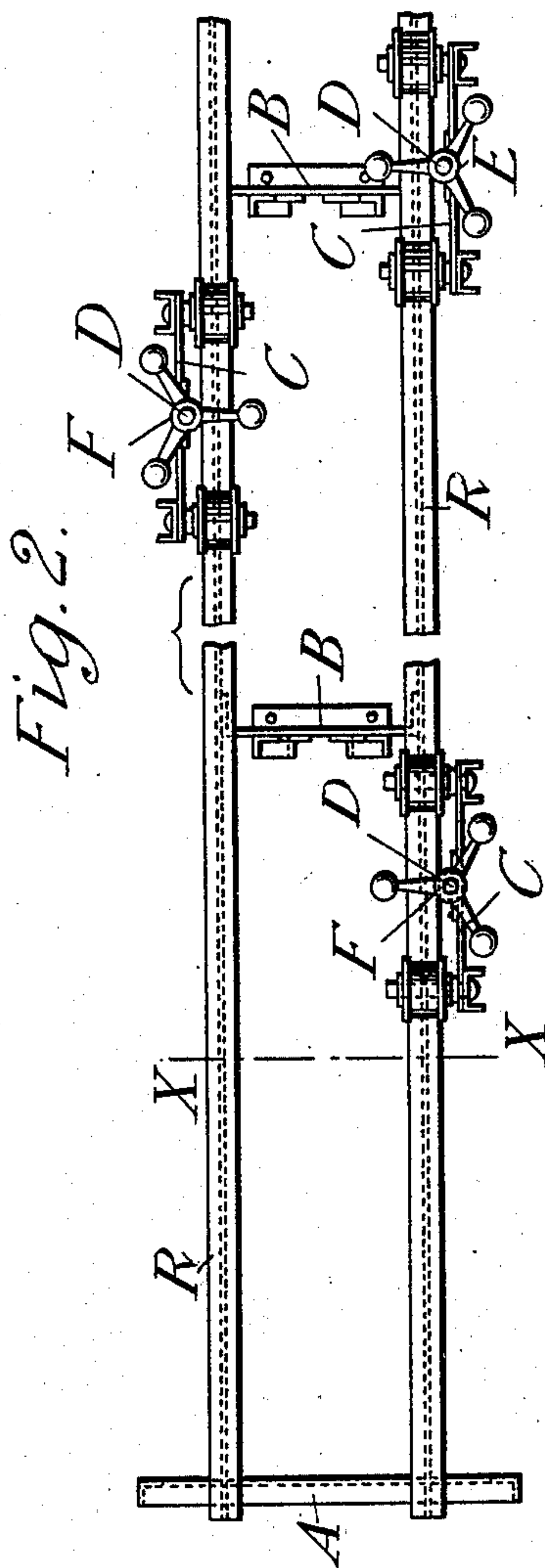
P. E. PRESCHLIN.
DRAW BENCH.

No. 580,715.

Patented Apr. 13, 1897.



Witnesses:
Thos. A. Green
Robert Everett



Inventor:
Paul Ernst Preschlin.
By *James L. Norris.*
Atty.

UNITED STATES PATENT OFFICE.

PAUL ERNST PRESCHLIN, OF LONDON, ENGLAND.

DRAW-BENCH.

SPECIFICATION forming part of Letters Patent No. 580,715, dated April 13, 1897.

Application filed May 23, 1896. Serial No. 592,861. (No model.)

To all whom it may concern:

Be it known that I, PAUL ERNST PRESCHLIN, a citizen of Switzerland, residing at 66 Broad Street Avenue, in the city of London, England, have invented a new and useful Improvement in Draw-Benches, of which the following is a specification.

This invention relates to means of supporting a tube, while it is being drawn through the die of a draw-bench, in correct line with the die. For this purpose about two feet above the draw-bench is fixed a rail parallel to the bench, and on this rail there are arranged to run several carriages, in which are fitted vertical screws carrying at their lower ends loops of wire or hooks, in which the tube rests. By turning the screws in the one direction or the other the tube can be raised or lowered, so as to be adjusted accurately in line with the die. As the tube advances through the die the carriages and hangers advance with it. The draw-bench is preferably made double, so that two parallel tubes can be drawn. In this case two parallel rails are provided, each having on it carriages. These rails are preferably fixed on the opposite ends of cross-heads carried on supports which extend up from the middle of the bench between the two tubes.

Figure 1 of the accompanying drawings is a part side view, and Fig. 2 is a part plan, of a double draw-bench according to this invention. Fig. 3 is an end view, and Fig. 4 is a transverse section on the line X X of Figs. 1 and 2.

On an end frame A and on cross-heads B, arranged at intervals along the draw-bench, are fixed two girder-rails R, on which run several carriages C, each carriage having wheels below as well as above the rail. On the outer side of each carriage there are eyes, through which passes a vertically-sliding bolt D, its lower part being bent to form a hook E and its upper part being screw-threaded to receive a nut F. On the hooks E are hung

loops of wire G or other hangers, by which are suspended the tubes H. The rails R being parallel to the bench, on turning the nuts F in the one direction or the other each of the tubes H can be accurately adjusted so as to have its axis in line with the center of the die, through which it is drawn in the usual way.

I make no claim, broadly, to a pipe or other carrier comprising a support carried by a trolley and having means for vertical adjustment. In my invention I carry the threaded bolts down upon the outside of the rail and then bend their lower ends in and bring them under the rail, so that the point of support for the weight will be in a straight line passing vertically through the rail and wheels. The advantages of this construction are obvious.

Having thus described the nature of this invention and the best means I know for carrying the same into practical effect, what I claim is—

In combination with a draw-bench, a rail supported above and parallel to it, carriages thereon provided with vertically-adjustable threaded bolts passing downward upon the outer side of the rail and extending below the same, their ends being curved, and brought beneath and in the vertical line of said rail and wheels of the carriages, to form hooks from which tube-supporting hangers are suspended to support a tube in a line coincident with a vertical line passing through the rail and wheels, and adjusting-nuts upon the upper ends of the threaded bolts which rise above the carriage, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 1st day of May, A. D. 1896.

PAUL ERNST PRESCHLIN.

Witnesses:

OLIVER IMRAY,
JNO. P. M. MILLARD.