

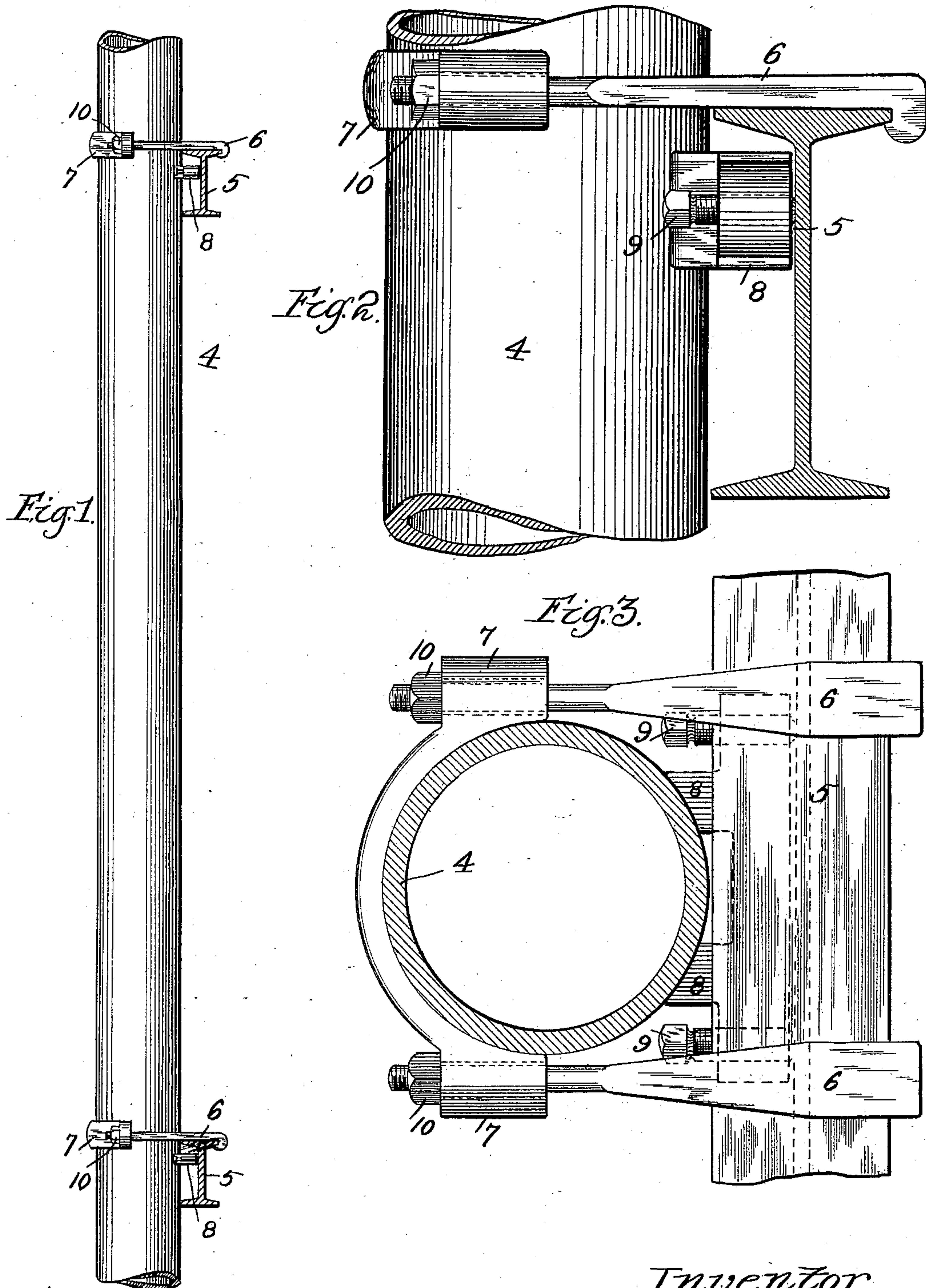
No. 617,357.

Patented Jan. 10, 1899.

G. H. REYNOLDS.
ELEVATOR CYLINDER ALINING DEVICE.

(Application filed Oct. 8, 1897.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE H. REYNOLDS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE CRANE
ELEVATOR COMPANY, OF SAME PLACE.

ELEVATOR-CYLINDER-ALINING DEVICE.

SPECIFICATION forming part of Letters Patent No. 617,357, dated January 10, 1899.

Application filed October 8, 1897. Serial No. 654,524. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. REYNOLDS, a citizen of the United States, residing in Chicago, Cook county, Illinois, have invented a certain new and Improved Elevator-Cylinder-Alining Device, of which the following, taken in connection with the accompanying drawings, is a specification.

The subject-matter of this specification was originally a part of an application filed by me April 30, 1897, Serial No. 634,547.

My invention has particular relation to that class of elevators in which a weighted ram or plunger is used to raise the car, the car being lowered by hydraulic pressure acting upon it so as to raise said ram or plunger.

In elevators of the above-mentioned class difficulty has been experienced in keeping the cylinder in perfect alinement. In high buildings the plunger used is very long and must of course operate without rubbing or friction upon the inside surface of the cylinder. By the improvement which I will now describe in connection with the accompanying drawings I am enabled to readily and reliably secure such accurate alinement of the cylinder with the greatest degree of nicety.

Figure 1 is a partial elevation of such an elevator-cylinder as I have above referred to with my improvement applied thereto. Fig. 2 is an enlarged view showing more clearly the application of the improvement to the cylinder at one of the floor-beams, and Fig. 3 is a plan view and section of the construction shown in Fig. 2.

The cylinder 4 is provided at each of the floor-beams 5 with a pair of hook-bolts 6, a strap 7, and a saddle-block 8, in which are a

couple of adjusting-screws 9. On the ends of the hook-bolts 6 are adjusting-nuts 10. If it be desired to move the cylinder in or out from the floor-beam 5 in order to bring it into alinement, this may be readily accomplished by tightening or loosening the nuts 10 and setting the screws 9 in proper position, and if it be desired to move the cylinder parallel with the I-beam this is readily done by loosening the nuts 10 and sliding the hook-bolts 6 along the floor-beam in a manner which will be readily understood from the drawings without a more detailed explanation and then tightening the nuts 10 to hold the strap 7 firmly in place.

By the means described the cylinder may be readily adjusted and alined either inward or outward or to either side and firmly, securely, and simply fastened in such position.

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

An elevator apparatus comprising a cylinder, a supporting-beam therefor, a yoke partially surrounding said cylinder, bolts or rods connecting said beam and yoke, hooks upon the ends of said bolts which engage said beam, and adjusting devices upon the ends of said bolts which engage said yoke, a saddle-block between the cylinder and beam, and a plurality of set-screws in said saddle-block arranged to alter the relative position of the beam and cylinder, substantially as described.

GEORGE H. REYNOLDS.

Witnesses:

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