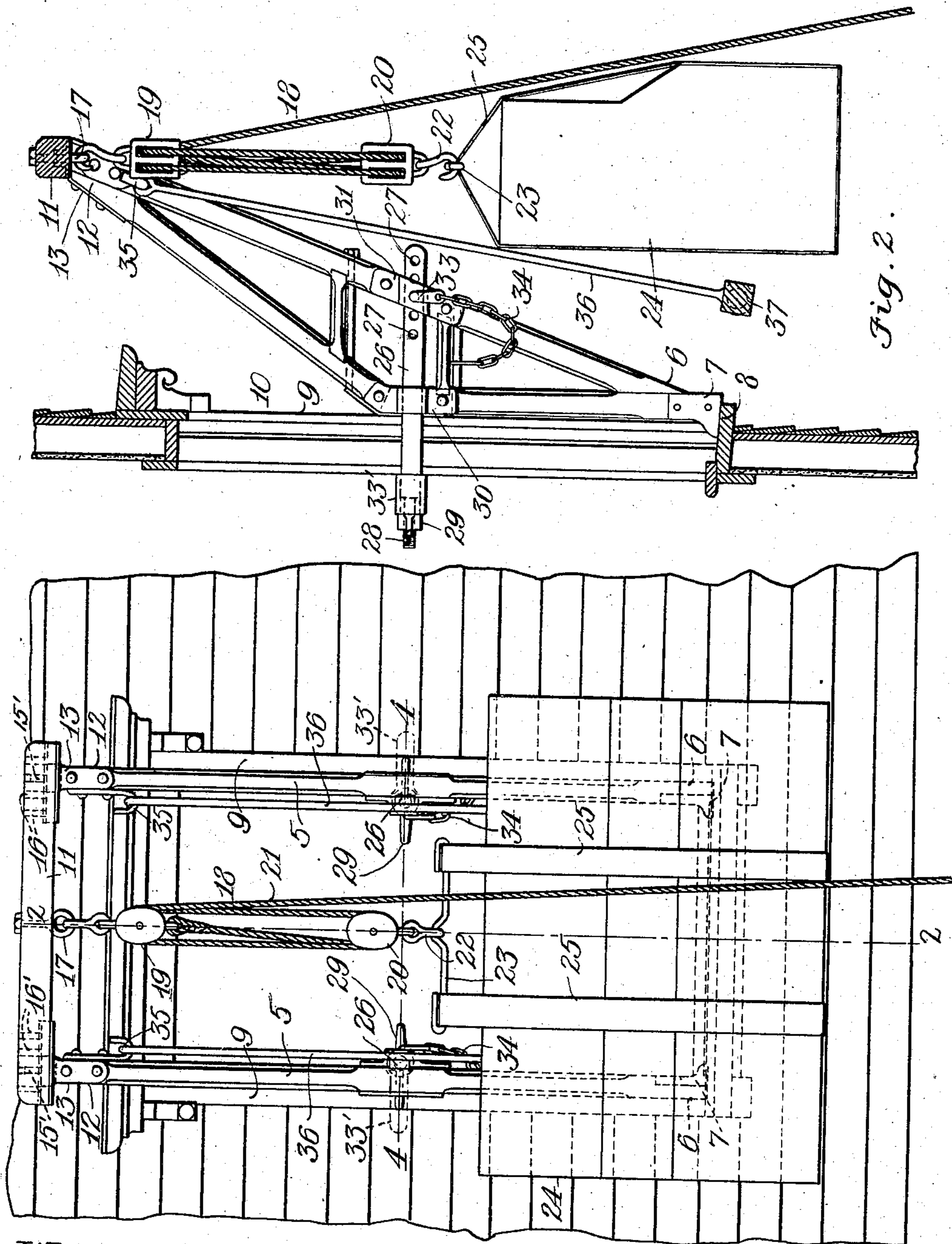


No. 867,010.

PATENTED SEPT. 24, 1907.

W. H. BREEN.
PORTABLE WINDOW DERRICK.
APPLICATION FILED DEC. 15, 1906.

2 SHEETS—SHEET 1.



Witnesses:
Ernest A. Gelfer.
Louis A. Jones.

Fig. 1.

Inventor:
William H. Breen
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Charles S. Gooding.

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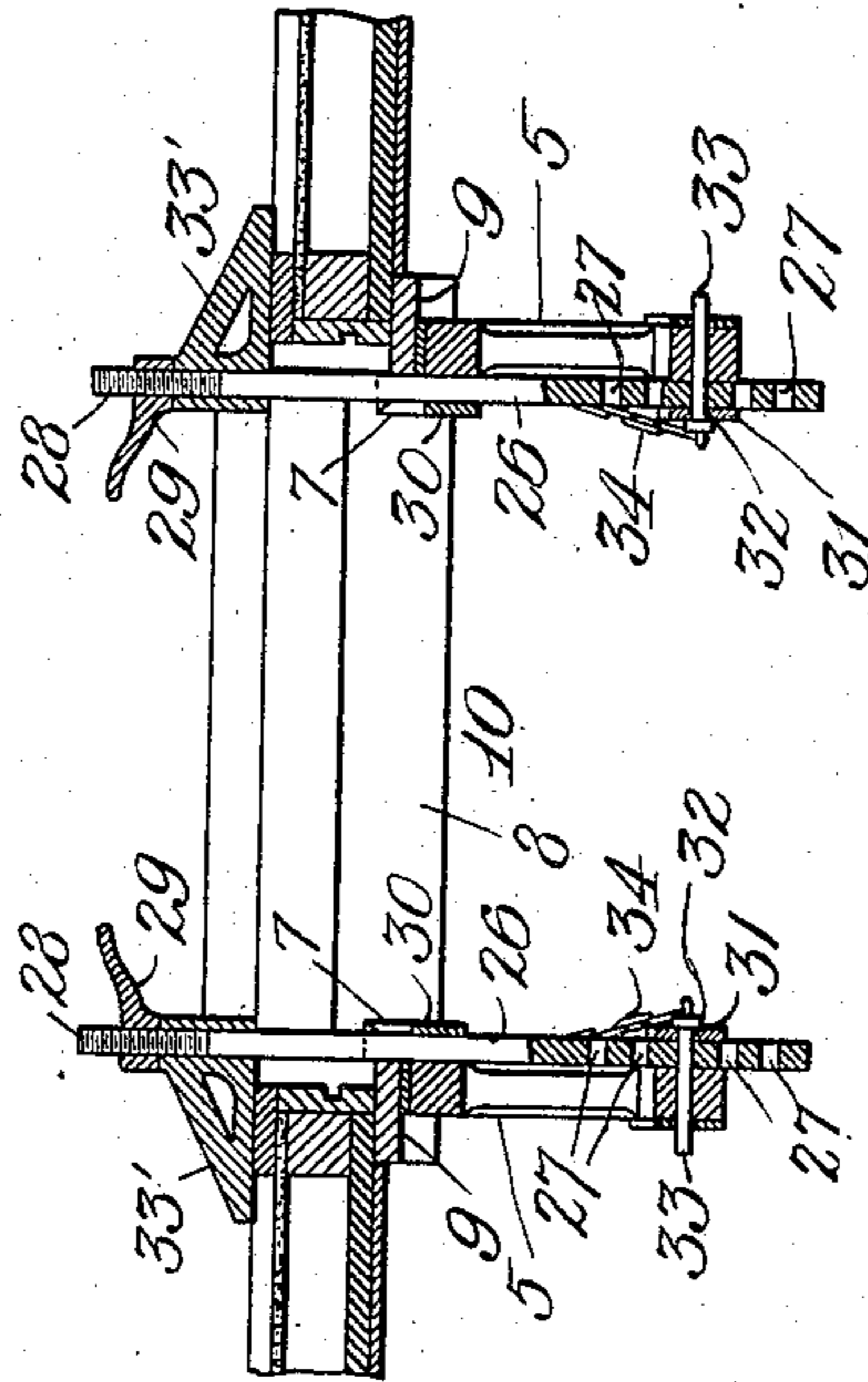


Fig. 4.

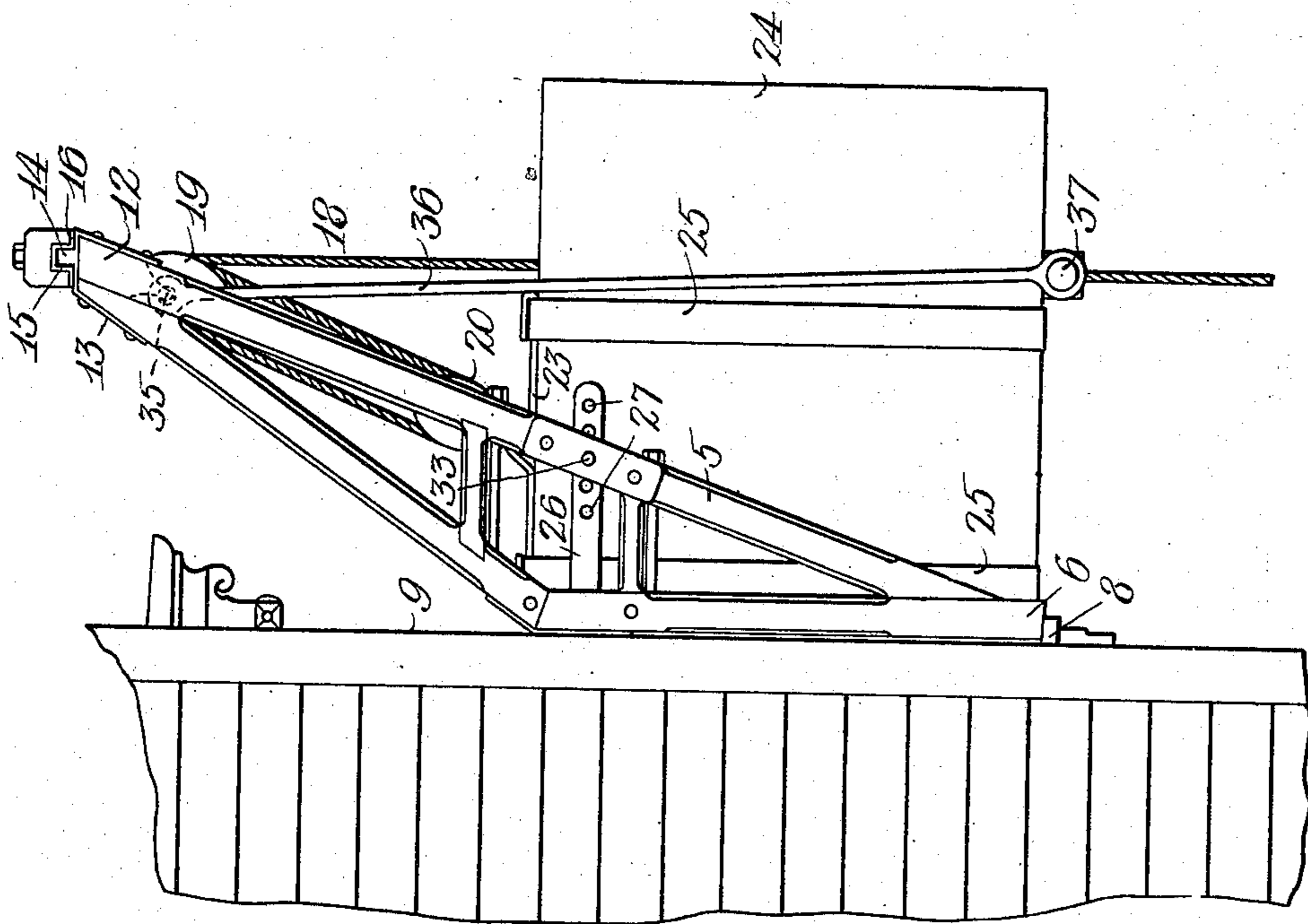


Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM H. BREEN, OF CHARLESTOWN, MASSACHUSETTS.

PORTABLE WINDOW-DERRICK.

No. 867,010.

Specification of Letters Patent.

Patented Sept. 24, 1907.

Application filed December 15, 1906. Serial No. 347,981.

To all whom it may concern:

Be it known that I, WILLIAM H. BREEN, a citizen of the United States, residing at Charlestown, in the county of Suffolk and State of Massachusetts, have
5 invented new and useful Improvements in Portable Window-Derricks, of which the following is a specification.

This invention relates to improvements in portable window derricks of that class which are adapted to be
10 clamped to window casings of a building and used to raise or lower pianos and the like so that they may be taken through the windows into and out of the building. Heretofore, in derricks of this class it has been necessary for the operator in clamping the side mem-
15 bers to the window casing to stand on the window sill and reach far out in order to turn the nuts which operate the clamps, this being both inconvenient and dangerous, and, furthermore, when the piano or other object was raised into alinement with the window great
20 difficulty was experienced in drawing the object through the window, owing to the lack of any support except the window sill and tackle, the difficulty of drawing the object through the window under the circumstances being well known.

25 It is the object of this invention to provide a derrick of the character described so constructed and arranged as to be easily and quickly adjusted to walls of different thickness and so that the clamps may be operated from the interior of the building, and the ob-
30 ject is further to provide a support upon which the object may rest while the tackle is loosed and the object is being drawn across a window sill.

The invention consists in the combination and arrangement of parts set forth in the following specification and particularly pointed out in the claims thereof.
35

Referring to the drawings: Figure 1 is a front elevation of my improved derrick shown attached to a window casing together with a tackle supported on said derrick and a piano suspended by said derrick.
40 Fig. 2 is a sectional elevation taken on line 2—2 of Fig. 1, looking toward the right in Fig. 2. Fig. 3 is a side elevation of the derrick with the building shown in elevation and broken away to save space in the drawings, the piano being shown resting partly on the
45 window sill and partly on the swinging support. Fig. 4 is a plan section taken on line 4—4 of Fig. 1.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 5, 5 are two side members whose
50 lower ends 6, 6 are provided with shoes 7, 7 adapted to rest upon the window sill 8. The side members 5, 5 are adapted to contact with the opposite sides 9, 9, respectively, of a window casing 10 on the exterior

faces thereof. A cross member 11 is detachably and adjustably secured to the side members 5, 5 at the upper ends 12, 12, respectively, of said side members. 55

The upper ends 12, 12, of the side members 5, 5 are provided with brackets 13, 13 having tongues 14, 14 adapted to engage grooves 15, 15 formed in plates 16, 16 fast to opposite ends, respectively, of the cross member 11. The brackets 13, 13 are also provided with pins 15', 15' adapted to engage perforations 16', 16' in the cross member 11. An eye-bolt 17 fast to the cross member 11 is adapted to support a tackle 18 comprising pulley blocks 19 and 20 and a rope 21. The
60 hook 22 of the pulley block 20 is adapted to receive a plate 23, said plate being secured to a piano or other object 24 by means of bands or straps 25, 25 extending completely around said piano. 65

Two horizontally arranged rods 26, 26, preferably
70 rectangular in cross section, are each provided near their outer ends with a row of perforations 27 and their inner ends 28, 28 are screw-threaded to receive nuts 29, 29, said nuts being provided with handles whereby they may be easily rotated. Each of the
75 rods 26 is located in brackets 30 and 31 fast to its respective side member 5. Each of the brackets 30 is provided with a perforation 32 adapted to receive a pin 33. The pins 33 are adapted to pass through the perforations 27 of the rods 26, whereby said rods may
80 be adjusted with relation to the side members 5, 5. Clamps 33', 33' non-rotatably mounted on the rods 26, 26 are adapted to contact with the inner faces of the window casing 10. By rotating the nuts 29, 29 in the proper direction, the side members 5, 5 may be rigidly
85 clamped to the window casing 10. The pins 33, 33 are preferably fastened by chains 34, 34 to their respective side members 5, 5 so that said pins may not be lost. 90

The upper ends 12, 12 of the side members 5, 5 are provided with hooks 35, 35 fast thereto, respectively. Two rods 36, 36 which may be suspended from the hooks 35, 35 are adapted to support a bar 37 which passes through eyes formed in the lower ends of said rods. When the piano 24 has been raised into aline-
95 ment with the window, the rods 36, 36 and the bar 37 which constitute a swinging frame may then be swung into the proper position and the piano 24 may then be allowed to rest upon the bar 37 while the tackle 18 is loosed and said piano is being drawn across the window
100 sill 8.

By reason of the perforations 27, 27 and the pins 33, the rods 26, 26 may be easily and quickly moved with relation to their respective side members 5, 5 so that the apparatus may be adjusted to different thicknesses
105 of walls without loss of time and by reason of the

screw-threaded nuts 28, 28 of the rods 26, 26 being located inside of the building, the nuts 29, 29 may be easily adjusted without danger or inconvenience.

Having thus described my invention what I claim 5 and desire by Letters Patent to secure is:

1. A portable window derrick comprising in its construction two side members adapted to contact with opposite sides, respectively, of a window casing on the exterior faces thereof, the lower ends of said members adapted to rest on 10 the upper face of the sill of said casing, a cross member detachably and adjustably secured to said side members at or near the upper ends thereof, two horizontally arranged rods fast to said side members, respectively, extending inwardly past said casing, two nuts having screw-threaded engagement with the inner ends of said rods, respectively, 15 and two clamps slidably mounted on said rods, respectively, each of said clamps adapted to intervene between its respective nut and the interior face of said casing, whereby said side members may be rigidly clamped to said casing.
2. A portable window derrick comprising in its construction two side members adapted to contact with opposite sides, respectively, of a window casing on the exterior faces thereof, the lower ends of said members adapted to rest on the upper face of the sill of said casing, a cross 25 member detachably and adjustably secured to said side members at or near the upper ends thereof, two horizontally arranged rods fast to said side members, respectively, extending inwardly past said casing, two nuts having screw-threaded engagement with the inner ends of said rods, respectively, and two clamps slidably and non-rotatably mounted on said rods, respectively, each adapted 30 to intervene between its respective nut and the interior face of said casing, whereby said side members may be rigidly clamped to said casing.
3. A portable window derrick comprising in its construction two side members adapted to contact with opposite sides, respectively, of a window casing on the exterior faces thereof, the lower ends of said members adapted to rest on the upper face of the sill of said casing, a cross mem- 35 ber detachably and adjustably secured to said side members at or near the upper ends thereof, two horizontally arranged rods adjustably fast to said side members, respectively, extending inwardly past said casing, two nuts having screw-threaded engagement with the inner ends of said rods, respectively, and two clamps slidably mounted 40 on said rods, respectively, and the interior face of said casing, whereby said side members may be rigidly clamped to said casing.
4. A portable window derrick comprising in its construction two side members adapted to contact with opposite sides, respectively, of a window casing on the exterior faces 45

thereof, the lower ends of said members adapted to rest on the upper face of the sill of said casing, a cross member detachably and adjustably secured to said side members at or near the upper ends thereof, two horizontally arranged 55 rods each provided with a plurality of perforations, two pins each adapted to enter a perforation in its respective rod to secure said rod to its respective side member, and two nuts having screw-threaded engagement with the inner ends of said rods, respectively, whereby said side members 60 may be rigidly secured to said casing.

5. A portable window derrick comprising in its construction two side members adapted to contact with opposite sides, respectively, of a window casing on the exterior faces thereof, the lower end of said members adapted to rest on 65 the upper face of the sill of said casing, a cross member detachably and adjustably secured to said side members at or near the upper ends thereof, two horizontally arranged rods each provided with a plurality of perforations, two pins each adapted to enter a perforation in its respective 70 rod to secure said rod to its respective side member, two nuts having screw-threaded engagement with the inner ends of said rods, respectively, and two clamps slidably and non-rotatably mounted on said rods, respectively, adapted to intervene between said ends, respectively, and 75 said casing, whereby said side members may be rigidly clamped to said casing.

6. A portable window derrick comprising in its construction two side members adapted to contact with opposite sides, respectively, of a window casing on the exterior faces thereof, the lower ends of said members adapted to rest on the upper face of the sill of said casing, a cross mem- 80 ber detachably and adjustably secured to said side members at or near the upper ends thereof, two horizontally arranged rods each provided with a plurality of perforations, two brackets fast to said side members, respectively, each of said brackets provided with a perforation, two pins adapted to enter the perforations of said brackets, 85 respectively, each of said pins also adapted to enter one of the perforations in its respective rod to secure said rod to its respective side member, two nuts having screw-threaded engagement with the inner ends of said rods, respectively, and two clamps slidably mounted on said rods, respectively, adapted to intervene between said nuts and 90 said casing, whereby said side members may be rigidly clamped to said casing. 95

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM H. BREEN.

Witnesses:

LOUIS A. JONES,
ANNIE J. DAILEY.