

(No Model.)

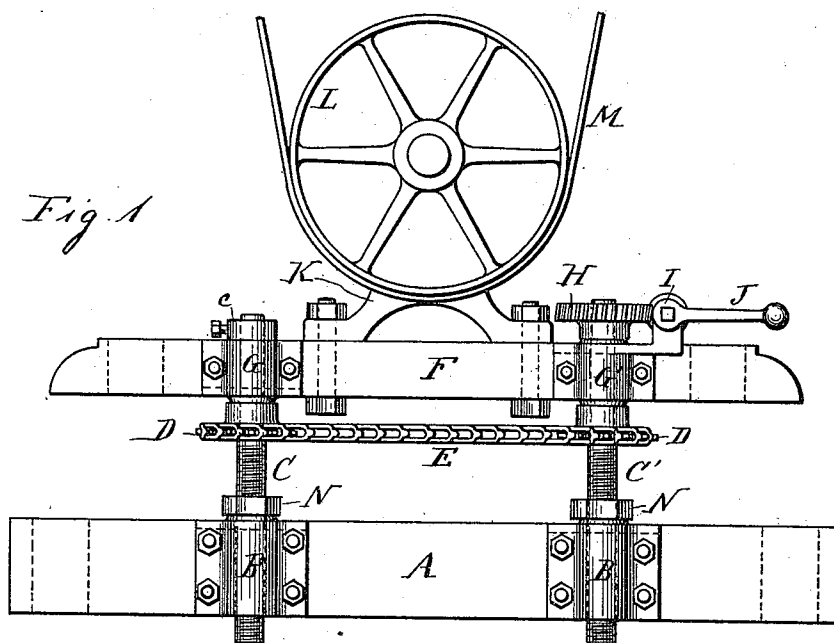
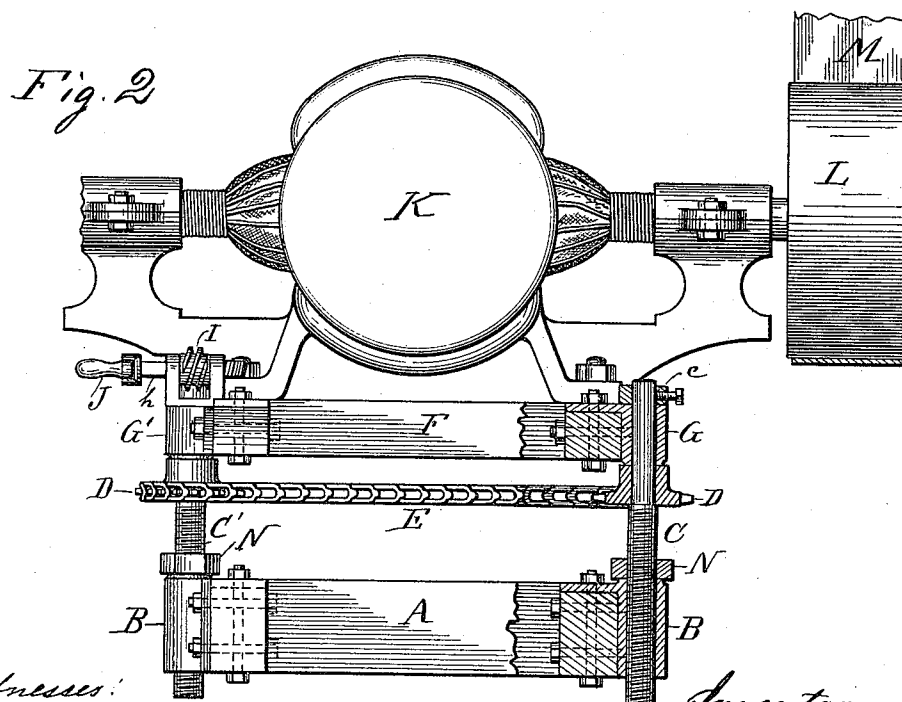
2 Sheets—Sheet 1.

T. WRIGLEY.

VERTICALLY ADJUSTABLE DYNAMO SUPPORT.

No. 434,011.

Patented Aug. 12, 1890.



Witnesses:
Otto Luebkert
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Inventor
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By Wm. B. Lutz
his Attorney

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3

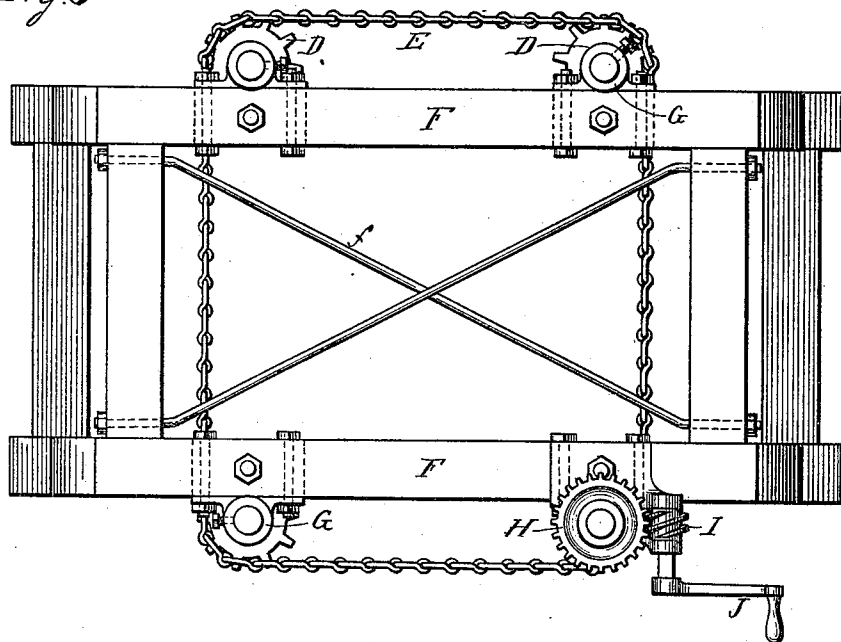
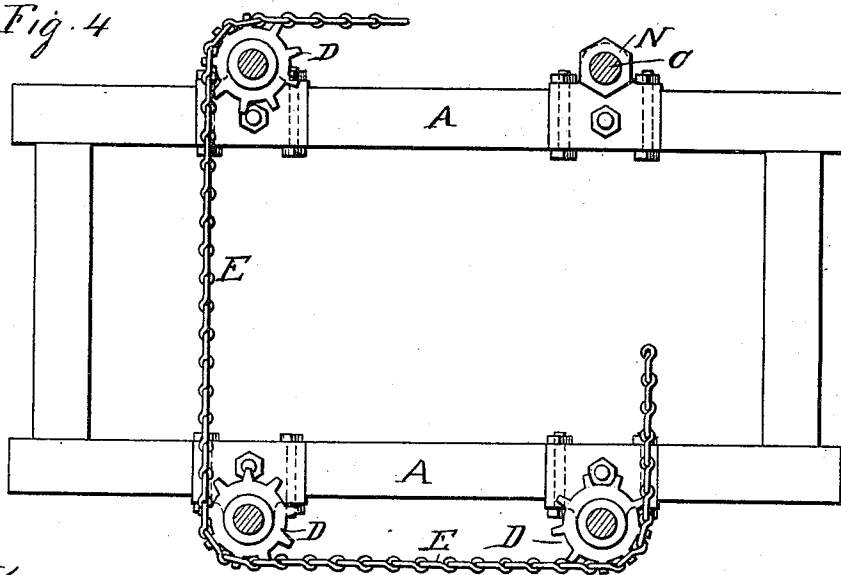


Fig. 4



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UNITED STATES PATENT OFFICE.

THOMAS WRIGLEY, OF OAK PARK, ASSIGNOR OF ONE-HALF TO FRANCIS B. BADT, OF CHICAGO, ILLINOIS.

VERTICALLY-ADJUSTABLE DYNAMO-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 434,011, dated August 12, 1890.

Application filed May 8, 1890. Serial No. 350,997. (No model.)

To all whom it may concern:

Be it known that I, THOMAS WRIGLEY, a citizen of the United States of America, residing at Oak Park, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Vertically-Adjustable Dynamo-Supports, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This my invention has for its object to provide a simple, strong, and durable device for supporting a dynamo-electric machine in a manner to enable an instantaneous raising or lowering of such dynamo for the purpose of tightening the endless driving-belt or for
15 slackening the same to be released of its tension while not in operation, and thereby to retain the elastic hold of such belt upon the pulleys to better advantage for driving the
20 dynamo; and with these objects in view my invention consists of the novel devices and combinations of devices hereinafter described and specifically claimed.

In the accompanying drawings, Figure 1
25 represents an end elevation, and Fig. 2 a side elevation, of my apparatus with a dynamo-electric machine supported thereon. Fig. 3 is a plan view of the dynamo-support, and Fig. 4 a sectional plan of the same.

30 Corresponding letters of reference in the several figures of the drawings designate like parts.

A denotes the lower rectangular frame composed of four timbers rigidly connected, and
35 B are cast-metal boxes vertically bored and screw-tapped and each provided with side and top flanges for securing these four (more or less) boxes B by screw-bolts against the side beams of frame A to be on respectively rectangular positions. Each such box
40 B forms the stationary nut for a jack-screw C, having mounted thereon a sprocket-wheel D for an endless link-belt E, stretched over the four sprocket-wheels D, to assure a simultaneous
45 rotation of the four screws C to be raised or lowered. The upper rectangular frame F, also composed of four timbers rigidly connected and braced by cross-rods *f*, has secured by screw-bolts against its side beams
50 boxes G, which are similar to boxes B, but

not internally screw-threaded, and into each such box G is pivoted the upper portion of one of the screws C, the hubs of the several sprocket-wheels D forming the bearing-shoulders for the several boxes G to rest upon. 55
Upon the upper extremity of three of the jack-screws C is secured by a set-screw a collar *c*, and upon one of the jack-screws C' is mounted a worm-wheel H, these collars *c* and the hub of the worm-wheel H tending to hold 60
the boxes G to their seats upon sprocket-wheels D. The box G' is provided with suitable eye-lugs as bearings for a short horizontal shaft *h*, having mounted thereon the worm I, that engages the worm-wheel H, and upon the 65
end of shaft *h* is mounted a hand-crank J, for rotating the worm I in either direction, and thereby transmitting a slow movement to the worm-wheel H and to the jack-screw C', which
70 movement by means of the endless link-belt E and the sprocket-wheels D will be transmitted to all the other jack-screws C to move in unison.

Upon the upper frame F is secured by bolts the frame of the dynamo-electric machine K, 75
with its driving-pulley overhanging such frame. Power may be transmitted to the dynamo from a pulley above by an endless belt M when for tightening the belt the worm I is turned in the direction to lower frame F, 80
while for slackening the belt the upper frame F, with the machine thereon, is elevated by turning worm I in the opposite direction; but the dynamo may as well be driven from a shaft 85
below when the raising and lowering of the dynamo must be in a reversed order. Upon each jack-screw C is placed a jam-nut N, which may be screwed tight upon boxes B after raising or lowering the dynamo for stretching belt M to drive the dynamo, whereby the upper frame 90
F and the dynamo thereon will be supported more rigid and will be held from shifting. It will be readily seen that a frame so constructed will afford a ready elevating or lowering of the dynamo seated thereon without deviating 95
from a horizontal position by turning a single crank, and will provide a rigid support for such dynamo on the various elevations the same may be adjusted to occupy.

This device may also be used for other pur- 100

poses, as for machines or other bodies or apparatus requiring to be elevated a limited height.

What I claim is—

- 5 1. A dynamo-supporting device consisting of the lower or stationary frame provided with a series of vertically-screw-tapped boxes, of jack-screws engaging these boxes, of an upper frame having boxes engaging the upper ends of the jack-screws, of sprocket-wheels mounted upon the several jack-screws and being spanned by an endless link-belt, and of suitable mechanism to one of the jack-screws for operating the device, all substantially as set forth.
- 15 2. A dynamo-supporting device consisting of a lower or stationary frame provided with

a series of vertically-screw-tapped boxes, of jack-screws engaging these boxes, of an upper frame having boxes engaging the upper ends of the jack-screws, of sprocket-wheels mounted upon the several jack-screws and being spanned by an endless link-belt, of a worm-wheel mounted upon one of the jack-screws, and of a worm engaging the worm-wheel and being operated by a hand-crank, all substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS WRIGLEY.

Witnesses:

WILLIAM H. LOTZ,
OTTO LUEBKERT.