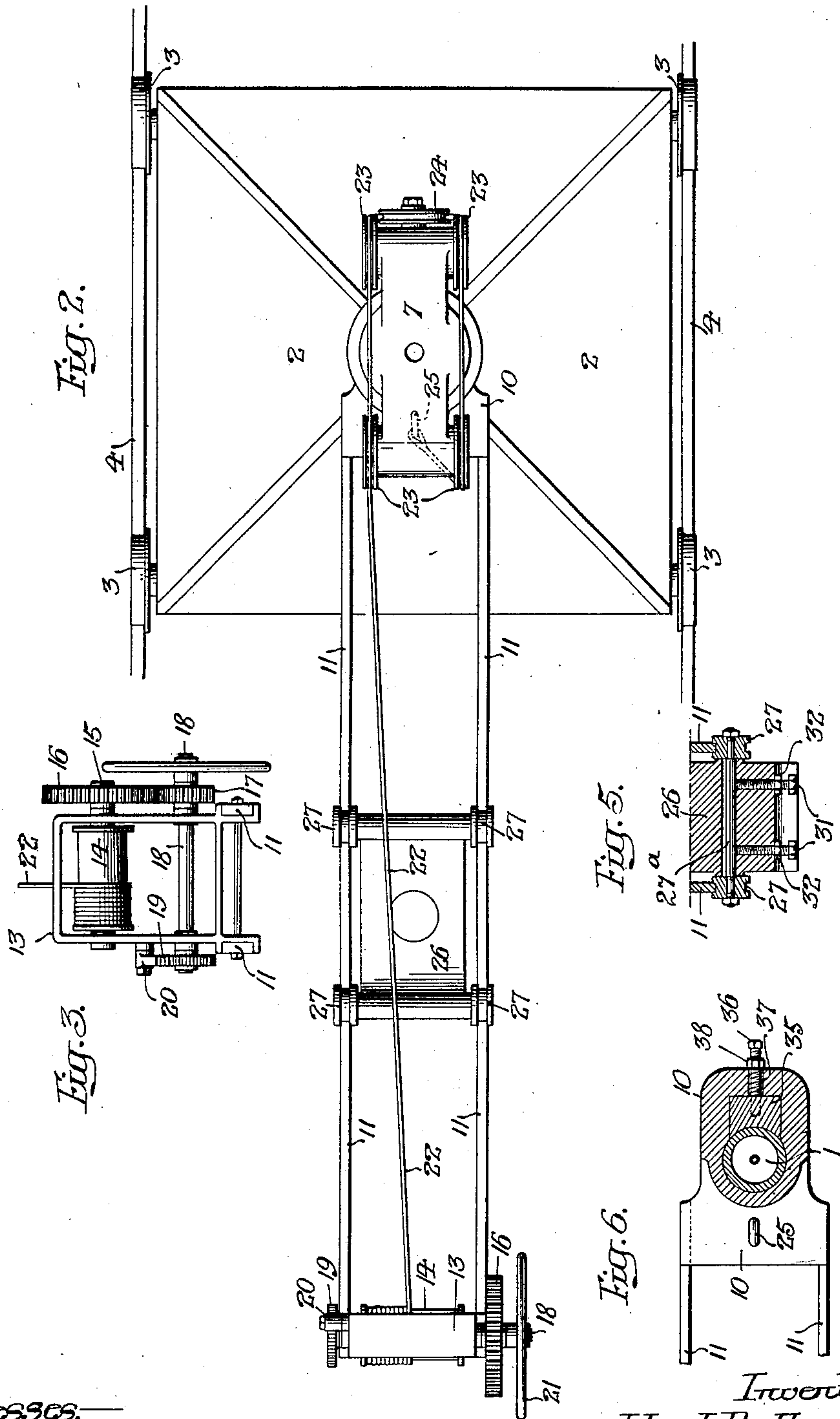


999,180.

J. J. PADBURY.
STONWORKING MACHINE.
APPLICATION FILED AUG. 11, 1910.

Patented July 25, 1911.

2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

JOHN J. PADBURY, OF ROCKLAND, MAINE.

STONEWORKING-MACHINE.

999,180.

Specification of Letters Patent. Patented July 25, 1911.

Application filed August 11, 1910. Serial No. 576,649.

To all whom it may concern:

Be it known that I, JOHN J. PADBURY, a citizen of the United States, and a resident of Rockland, Knox county, Maine, have invented certain Improvements in Stoneworking-Machines, of which the following is a specification.

My invention relates to stone working machine; and the object of my invention is to provide a portable carrier or support for a suitable stone working tool; such tool being of the usual type operating by the force of fluid under pressure.

The object of my invention is to provide a machine that is portable; and while in the present instance I have shown it as adapted to rails, it will be understood that it may be provided with wheels permitting movement in all directions.

My improvements have been directed to structures of the type which include a column upon which the support for the stone dressing tool is mounted, which support is movable vertically and revoluble with respect to the column.

These and other features of my invention will be fully described hereinafter, reference being had to the accompanying drawings, in which:

Figure 1, is a side elevation, partly in section, of a structure embodying my invention; Fig. 2, is a plan view of the same; Fig. 3, is an end elevation of the beam structure; Fig. 4, is a perspective view of the tool carrier; Fig. 5, is a cross sectional view on the line *a-a*, Fig. 1, and Fig. 6, is a sectional plan view on the line *b-b*, Fig. 1.

In the drawings herewith, 1 represents a column, which may be suitably anchored to a truck 2 mounted on wheels 3, which, in the present instance, are adapted to rails 4. The column is hollow and may be circular in contour, and it carries at its upper end a block 5 having a ball-race 6, and such structure is arranged to receive a block 7 having a ball-race 8; balls 9 being interposed between the several races so that the block 7 may be free to turn during the operation of the structure.

Carried by the column 1 is a collar 10 of peculiar shape, supporting on one side a pair of rails 11 forming a beam, which carries at its outer end a winch comprising a suitable frame 13 supporting a drum 14 on a shaft 15, and means to drive said drum comprising a gear wheel 16 carried by the shaft, a

pinion 17 carried by a shaft 18, the opposite end of which has a ratchet wheel 19, with which a pawl 20 is adapted to engage, with a hand wheel 21 on said shaft 18 whereby it may be turned, and through the gearing just mentioned the drum 14 may be rotated.

Connected to the drum 14 is a rope, wire chain or cable, as may be best suited for the purpose, indicated at 22, which passes over pulleys 23 journaled in the block 7 on top of the column 1, thence around a pulley 24 carried by the collar 10, over another pair of pulleys 23 carried by the block 7, with its end securely anchored to a hook 25 secured to the collar 10 on the side opposite the pulley 24. By the use of this structure, movement of the drum will raise the collar 10 vertically on the column 1, maintaining the beam at all times in a substantially horizontal position.

Carried by the beam is a suitable trolley comprising a frame 26 having wheels 27 engaging the upper and lower edges of the beam, which frame supports a stone dressing or surfacing tool 28 of any approved type, driven by motive fluid under pressure. The lower wheels 27 are carried by adjustable shafts 27^a. This tool may be secured in position by means of a collar 29 supported by screws 30. The frame 26 is slotted for adjustment of the shafts 27^a of the lower wheels, and bolts 31 are provided to effect such adjustment when it becomes necessary, due to the wear upon said wheels; such bolts having lock nuts 32. The collar 10 in engagement with the column 1 is subjected, of course, to more or less wear during its rotative movement on said column, and also to the vertical movement on the same occasioned by operation of the rope or cord 22, and in addition, it has to support the weight of the beams 11, frame 13 and the trolley 26, all of which forces tend to produce wear at certain points on the collar and column unless means be provided to overcome such wear. For this purpose, the collar is enlarged at the front and back, one point being below the beam while the other is directly opposite therefrom and above the beam, and in such recesses adjustable shoes 35 are placed, secured in place by bolts 36 which pass through slots 37, formed in the collar directly behind each shoe, as clearly illustrated in Figs. 1 and 6; such bolts also having lock nuts 38. By taking up the

bolts connected to these shoes at intervals, any wear upon the same is compensated for and the beam maintained in the desired horizontal plane.

5 Below the truck carrying the column, I may provide a reservoir 41 for fluid under pressure, air or the like, which may be heated in cold weather to prevent all danger of the tools freezing, and connected with this
10 reservoir there may be the usual inlet pipe 42, and leading from the same is an outlet pipe 43 disposed in the column having a nozzle 44 passing through the wall of the column to which a hose 44^a is attached, connecting the source of power with the tool.

15 To overcome any jar that may be present between the tool casing and the trolley due to vibration of the casing when the tool is in action, I may provide a suitable washer
20 of resilient material between said casing and the trolley, as indicated at 45 in Fig. 1.

I claim:

1. A tool support comprising a portable column, a collar vertically movable and
25 revoluble on said column, a pair of rails forming a beam carried by said collar, a winch carried at the outer end of said beam, a cable extending from the winch to said collar whereby vertical movement of the lat-
30 ter on the column may be effected by operating the winch, and wedge-blocks forming adjustable wear compensating means for said collar disposed between the latter and the column in line with the beam above and
35 below the collar.

2. A tool support comprising a portable

column, a collar vertically movable and revoluble on said column, means for moving said collar vertically, a beam carried by said collar, a stone dressing tool movably
40 mounted on said beam, adjustable wear compensating means carried by said collar in line with the beam, one part of such means being disposed below the beam and toward the latter while the other part is disposed
45 above the beam and on the opposite side of the column, and means for holding said wear compensating means in place and adjusting the same with respect to the collar.

3. The combination of a portable column,
50 a collar vertically movable thereon, a beam carried by said collar, removable wear shoes carried by said collar above and below the same on opposite sides of the collar and in line with the beam, and means for adjusting
55 said wear shoes with respect to the collar and column.

4. The combination of a portable column, a collar vertically movable thereon, a beam carried by said collar, removable wedge-
60 shaped wear shoes carried by said collar above and below the same on opposite sides of the collar and in line with the beam, and set screws for adjusting said wear shoes
65 with respect to the collar and column.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

JOHN J. PADBURY.

Witnesses:

CHAS. SMALLEY,
D. S. CRABTREE.