

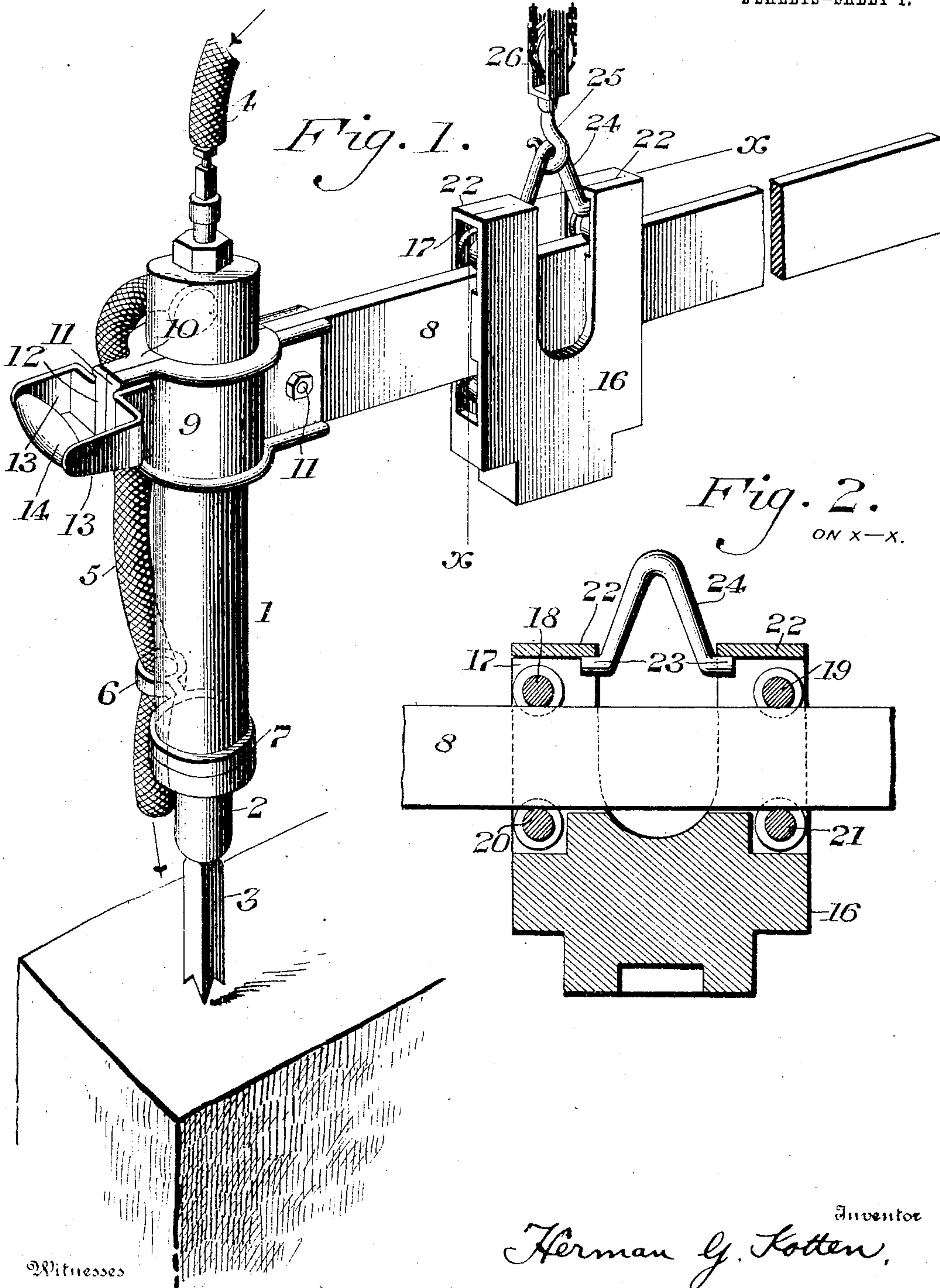
No. 779,943.

PATENTED JAN. 10, 1905.

H. G. KOTTEN.
PNEUMATIC TOOL.

APPLICATION FILED MAR. 25, 1904.

2 SHEETS—SHEET 1.



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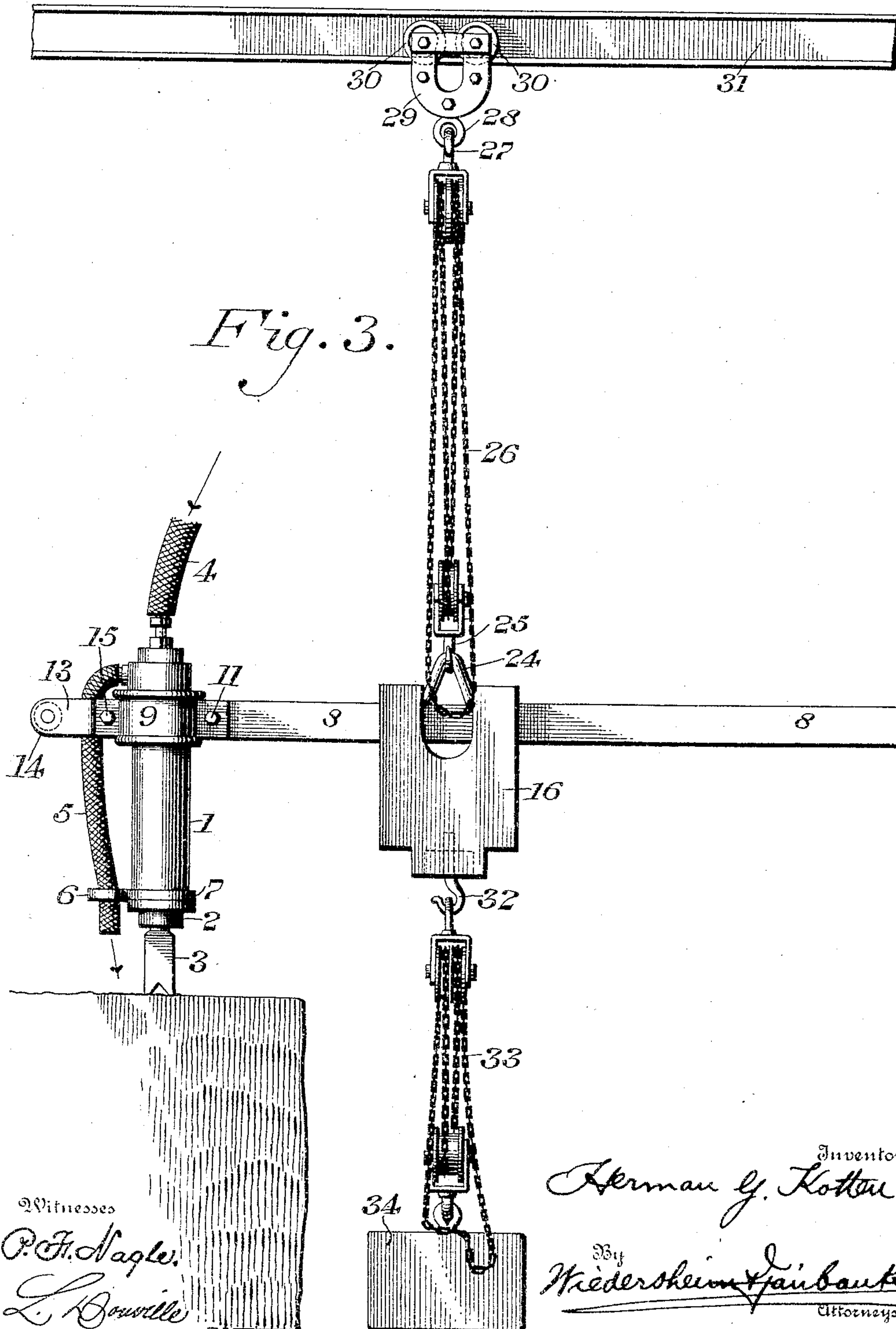
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UNITED STATES PATENT OFFICE.

HERMAN G. KOTTEN, OF NEW YORK, N. Y.

PNEUMATIC TOOL.

SPECIFICATION forming part of Letters Patent No. 779,943, dated January 10, 1905.

Application filed March 25, 1904. Serial No. 200,062.

To all whom it may concern:

Be it known that I, HERMAN G. KOTTEN, a citizen of the United States, residing in the city, county, and State of New York, have
 5 invented a new and useful Improvement in Pneumatic Tools, of which the following is a specification.

My invention relates to a novel construction of a pneumatic tool and supporting devices
 10 therefor, whereby I am enabled to readily support a pneumatic tool and its adjuncts from a power hoist or system of pulleys, such as is generally in existence in most stone-
 15 yards for general hoisting purposes, provision being made for enabling the tool to be raised and lowered, moved toward and from the operator, or swung laterally without necessitating the employment of cumbersome cranes or supporting-frames, which have heretofore
 20 in a great many instances been employed.

To the above ends my invention consists of a novel construction of a carriage adapted to be supported from any desired point, said carriage having rollers therein adapted to
 25 sustain a bar which has thereon a pneumatic stone-dresser or other tool, the forward portion of said bar being equipped with a handle and provision being thus made for readily adjusting the pneumatic tool relatively to the
 30 surface of the stone or block to be dressed according to requirements.

Figure 1 represents a perspective view of a pneumatic tool and its adjuncts embodying my invention. Fig. 2 represents a section on
 35 line *x x*, Fig. 1. Fig. 3 represents a side elevation showing the pneumatic tool and its adjuncts supported from the usual chain hoist and provided with counterbalancing devices.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates a pneumatic tool, which same may be constructed in accordance with any approved form; but I prefer to employ pneumatic tools of the
 45 character seen in prior patents heretofore granted to me, said tool having the nose-piece 2, in which is inserted the shank of the bit, chisel, or other stone working or dressing tool 3.

50 4 designates a supply-pipe for leading the

motive fluid to the tool, and 5 the exhaust-pipe, whose lower extremity is adapted to discharge at or near the surface of the stone to be cut.

6 designates a guide, the same consisting 55 of an eye attached to the ring 7, which latter is secured to the tool-cylinder by any convenient means, said eye having the lower extremity of the exhaust-hose 5 passing there-through, whereby said hose is retained in the
 60 desired position.

8 designates a laterally-extending bar, which has the clamping members 9 and 10 attached thereto by means of the fastening devices 11, said clamping devices 9 and 10
 65 having the projecting portions 11 and 12, to which are attached the arms 13, in the forward portion of which is located the handle 14, said arms being held in position by means of the bolt or other fastening device 15. 70

16 designates the head employed, which has the opening 17 therethrough, in which are located two sets of rollers 18, 19, 20, and 21, upon which said bar 8 rests and travels, as will be understood from Figs. 1 and 2. The
 75 head 16 is provided with the top walls 22, and against the under portion thereof is sprung or otherwise inserted the terminals 23 of the bracket 24, which latter is adapted to be engaged by the hook 25, which latter is attached
 80 to the lower portion of the chain hoist or its equivalent 26, the upper portion of the hook 27 of said chain hoist engaging the eye 28, which is supported by the frame 29 from the rollers 30, which travel on the beam 31. 85

32 designates a hook attached to the under side or other suitable portion of the head 16, said hook having attached thereto the chain hoist 33, the lower portion of which is secured to the weight 34, adapted to normally rest on
 90 the ground.

It will be understood that the hoists 26 and 33 are constructed in accordance with hoists of the usual construction, as will be familiar to those skilled in the art, and I have there-
 95 fore not deemed it necessary to enter into a detailed description of the same.

The operation is as follows: When the parts are in assembled position, as seen in Figs. 1 or 3, it will be apparent that the piston of the 100

pneumatic tool having been caused to reciprocate by the admission of motive fluid in the usual manner, by the manipulation of the handle 14 the tool containing the stone-dressing implement 3 or its equivalent can be moved toward or away from the operator or laterally shifted or raised or lowered, according to requirements.

The weight 34 need not be employed in every instance, and it will be apparent that the precise manner of supporting the head 16 and its adjuncts may be departed from without departing from the spirit of my invention. It will, however, be apparent to those skilled in the art that my invention is practically applicable to be used in stone-yards and other plants which are equipped with hoists or tackles of the usual construction, in which case it will only be necessary to merely insert the hook 25 into the bracket 24, whereupon the tool is immediately placed in position for convenient and efficient manipulation. The tool can be raised or lowered by the manipulation of the chain hoist or other pulley system, and as the operator grasps the handle 14 the tool can be laterally shifted in any desired direction.

It will be apparent that changes may be made by those skilled in the art which will come within the scope of my invention in the manner of assembling and supporting the above parts, and I do not, therefore, desire to be limited in every instance to the exact construction I have herein shown and described.

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

1. The combination of a pneumatic tool, a head having rollers therein, a bar supported upon said rollers, means for securing said pneumatic tool to said bar, a bracket secured to said head and a chain hoist adapted to coact with said bracket, the latter being suspended from said chain hoist and adapted to freely swing therefrom.

2. In a device of the character named, a head having a series of rollers therein, a bar passing through said head and supported upon said rollers, a pneumatic tool, a clamping device for securing said tool to said bar, said device consisting of two members adapted to engage the cylinder of said tool and having one pair of their ends secured to said bar, arms secured to the opposite ends of said clamping device and a handle attached to said arms.

3. In a device of the character named, a head having a series of rollers therein, a bar passing through said head and supported upon said rollers, a pneumatic tool, a clamping device for securing said tool to said bar, said device consisting of two members adapted to engage the cylinder of said tool and having one pair of their ends secured to said bar, arms secured to the opposite ends of said clamping device and a handle attached to said arms, the top walls of said head being engaged by the terminals of a bracket, said bracket being adapted to engage a suitable supporting device.

4. The combination of a pneumatic tool, a bar, a support therefor, means for securing said tool to said bar, and a chain hoist adapted to coact with said support, the latter being suspended from said chain hoist and adapted to swing therefrom and be laterally adjusted according to requirements.

5. The combination of a pneumatic tool, a head, a bar movably supported by said head, means for securing said pneumatic tool to said bar and an adjusting device having its upper extremity connected to a suitable support and its lower extremity connected to said head.

6. The combination of a pneumatic tool, a head having rollers thereon, a bar supported on said rollers and secured to said tool, a suspension device for supporting said head, bar and tool, a suspension device connected to the under side of said head and a weight attached to said last-mentioned suspension device.

7. In a device of the character named, a head, means for supporting a pneumatic tool adjustably with respect to said head, a suspension device for supporting said head, a suspension device attached to the under side of said head and a weight carried by said last-mentioned suspension device and said weight being adapted to rest on the ground.

8. The combination of a pneumatic tool, a head, a bar supported by said head, means for securing said pneumatic tool to said bar, and a chain hoist having one extremity suitably supported, whereby said hoist is capable of being adjusted according to requirements, the other extremity of said hoist being secured to said head, whereby the latter and its adjuncts are free to turn or swing thereon.

HERMAN G. KOTTEN.

Witnesses:

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