

951,320.

H. LECHTENBERG.
WEDGE CUTTING MACHINE.
APPLICATION FILED APR. 17, 1909.

Patented Mar. 8, 1910.

2 SHEETS—SHEET 1.

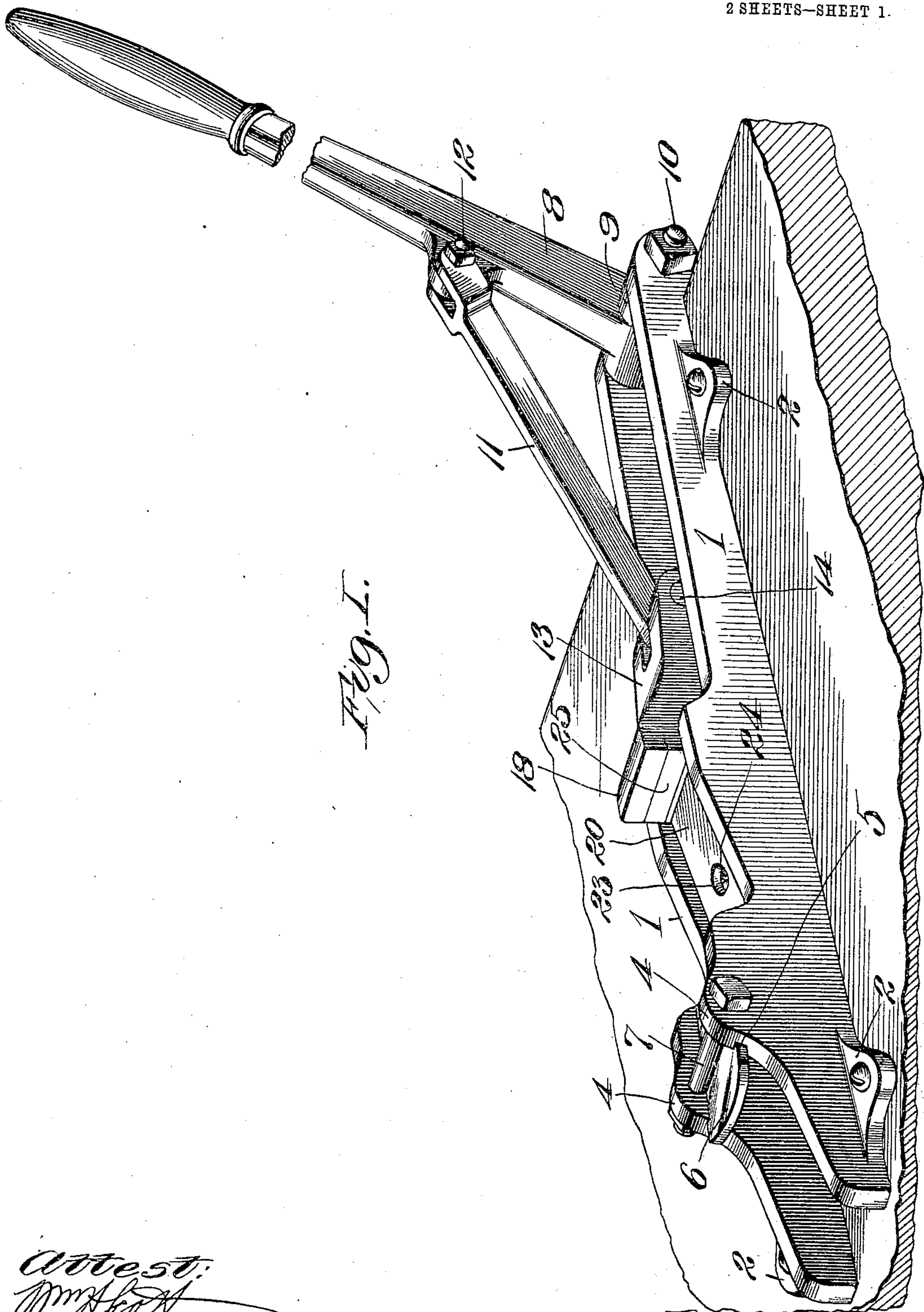


Fig. 1.

Attest:
[Signature]
E. M. Harrington.

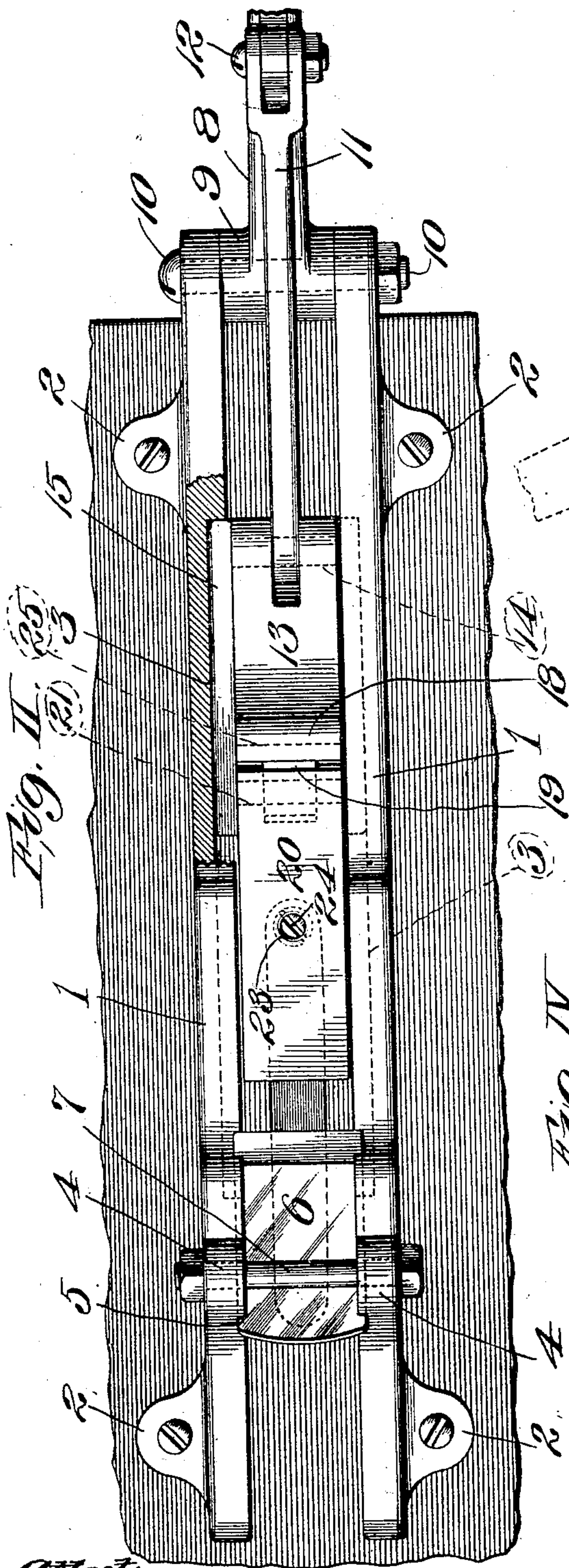
Inventor:
H. Lechtenberg,
by *[Signature]* atty.

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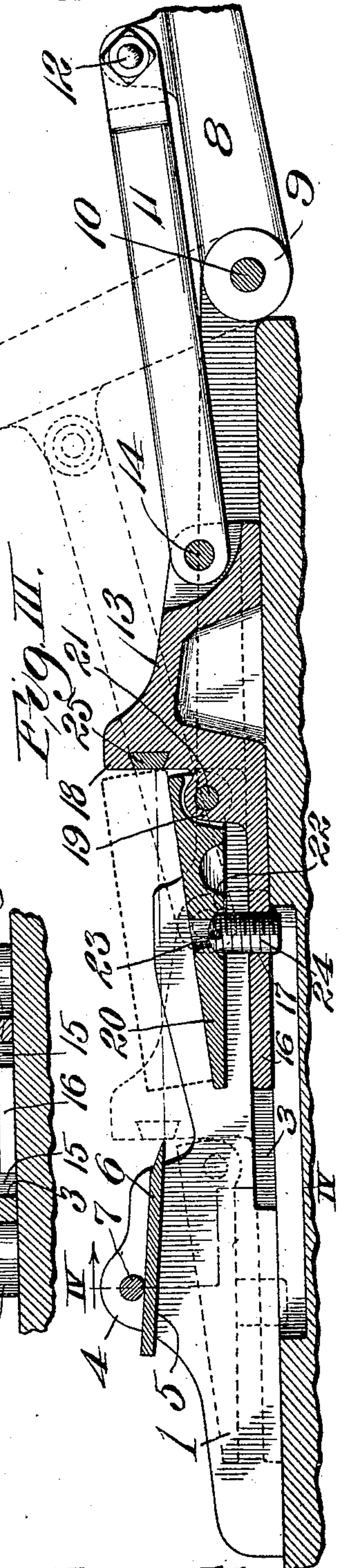
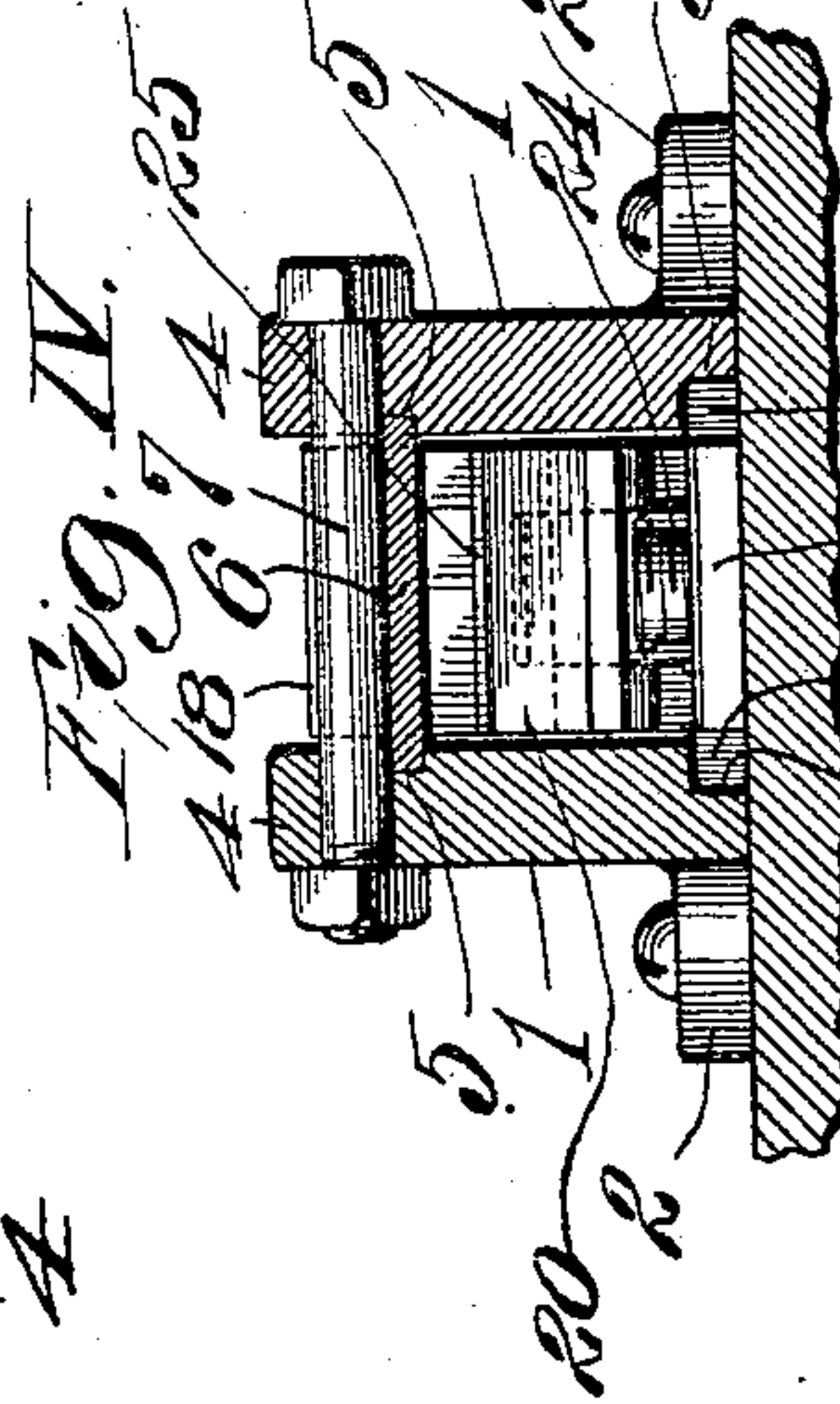
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2 SHEETS—SHEET 2.

951,320.



Witness:
Wm. H. H.
E. M. Harrington.



Inventor:
H. Lechtenberg,
by E. J. Knight
att'y.

UNITED STATES PATENT OFFICE.

HENRY LECHTENBERG, OF QUINCY, ILLINOIS, ASSIGNOR TO CENTRAL IRON WORKS,
OF QUINCY, ILLINOIS, A CORPORATION.

WEDGE-CUTTING MACHINE.

951,320.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed April 17, 1909. Serial No. 490,444.

To all whom it may concern:

Be it known that I, HENRY LECHTENBERG, a citizen of the United States of America, residing at Quincy, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Wedge-Cutting Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a machine for cutting wedges from blocks of wood, the invention having for its object the production of a machine of this description which is of very simple construction and in which the part by which the blocks of wood are supported may be adjusted vertically for the purpose of permitting the cutting of wedges of different degrees of angle.

Figure I is a perspective view of my wedge cutting machine. Fig. II is a top or plan view of the machine partly in horizontal section. Fig. III is a longitudinal section taken centrally through the machine. Fig. IV is a vertical section taken on the irregular line IV—IV, Fig. III.

In the accompanying drawings:—1 designates the side members of the frame of my machine which are provided with laterally extending lugs or ears 2 adapted to receive screws or bolts by which the frame members, which are arranged parallel with each other, may be secured upon a bench or other support. At the inner side of each side frame member and at the bottom thereof is a longitudinal runway groove 3, (see full lines Figs. III and IV and dotted lines Fig. II.) Projecting upwardly from the side frame members, near their ends, are vertical extensions 4 provided at their inner sides with inwardly inclined knife sockets 5 that receive the edges of a cutting blade 6. The cutting blade extends longitudinally of the machine, is inclined downwardly from its rear end, and its cutting edge is presented toward the end of the machine farthest removed from that at which the cutting blade is located.

7 is a clamping bolt mounted in the vertical extensions of the side frame members and extending transversely across the cutting blade above it, the said clamping bolt being designed to draw the vertical extensions 4 of the side frame members toward each other to a sufficient degree to provide

for their exerting a clamping pressure against the edges of the cutting blade to hold it from movement longitudinally of the machine.

8 designates a hand lever provided at its inner end with a head 9 located between the frame members 1 at the end of the machine farthest removed from the cutting blade 6 and which is pivotally connected to the side frame members by a bolt 10 that passes through said members and the head of the lever.

11 is a connecting rod pivoted at 12 to the hand lever 8.

13 designates a carrier operable between the side frames 1 longitudinally of the machine and to which the connecting rod 11 is pivoted at 14. This carrier is provided with side fins 15 operable in the runway grooves in the inner sides of the frame members and whose end walls serve to restrict the forward and rearward movements of the carrier.

16 is a horizontal arm projecting forwardly from the carrier 13 and in which is a vertical screw threaded aperture 17. At the forward end of the carrier is a vertical shoulder 18 and between said vertical shoulder and the rear end of the horizontal arm 16 is an ear 19.

20 designates a pivoted block rest having an inclined upper face and the rear end of which is connected by a pivot pin 21 to the ear 19 at the front end of the carrier 13. The block rest is located at a lower level than the cutting blade 6 and is inclined downwardly from its rear end toward its forward end that extends in a direction toward the cutting blade 6. At the bottom of the block rest is a rounded socket 22 and extending vertically through said rest at the location of said socket is an aperture 23.

24 is an adjusting screw seated in the screw threaded aperture 17 in the arm 16 at the forward end of the carrier 13 and the upper end of which is rounded and occupies the rounded socket 22 at the bottom of the block rest. This adjusting screw serves as a support for the block rest and it is slotted at its upper end to provide for the application thereto of a screw driver, or other suitable implement, when the implement is introduced through the aperture. By introducing an implement, as mentioned, through said aperture and into engagement with the adjusting screw, said screw may be turned

to any desired degree for the purpose of elevating or lowering the block rest, thereby providing for said rest being so upheld as to permit the cutting of wedges having different angles.

25 is a block, that may be of lead, or any other suitable material, inserted in the carrier 13 at the rear of the shoulder 18 and which is so positioned as to receive the cutting edge of the cutting blade 6 in the event of the carrier being moved toward said cutting blade to such degree as to cause the cutting blade to be touched thereby.

I claim:—

15 A wedge cutting machine comprising side members, a cutting blade, a carrier formed integral with a vertical shoulder at its for-

ward end, with a forwardly projecting horizontal arm having a vertical screw threaded orifice and with an ear between the vertical shoulder and the rear end of the horizontal arm, an adjusting screw having a rounded upper end and adjustable in the vertical screw threaded orifice of the horizontal arm, a block rest pivoted to the ear of the carrier and formed with a tool-aperture and a rounded screw socket receiving the rounded head of the adjusting screw and on which the free end of the block rest is supported, and means for reciprocating the carrier.

HENRY LECHTENBERG.

In the presence of—

H. C. SCHAFER,

HARRY HEIDBREder.