W. H. LEAVER.

DIE STOCK.

APPLICATION FILED SEPT. 6, 1910.

986,473. Patented Mar. 14, 1911.

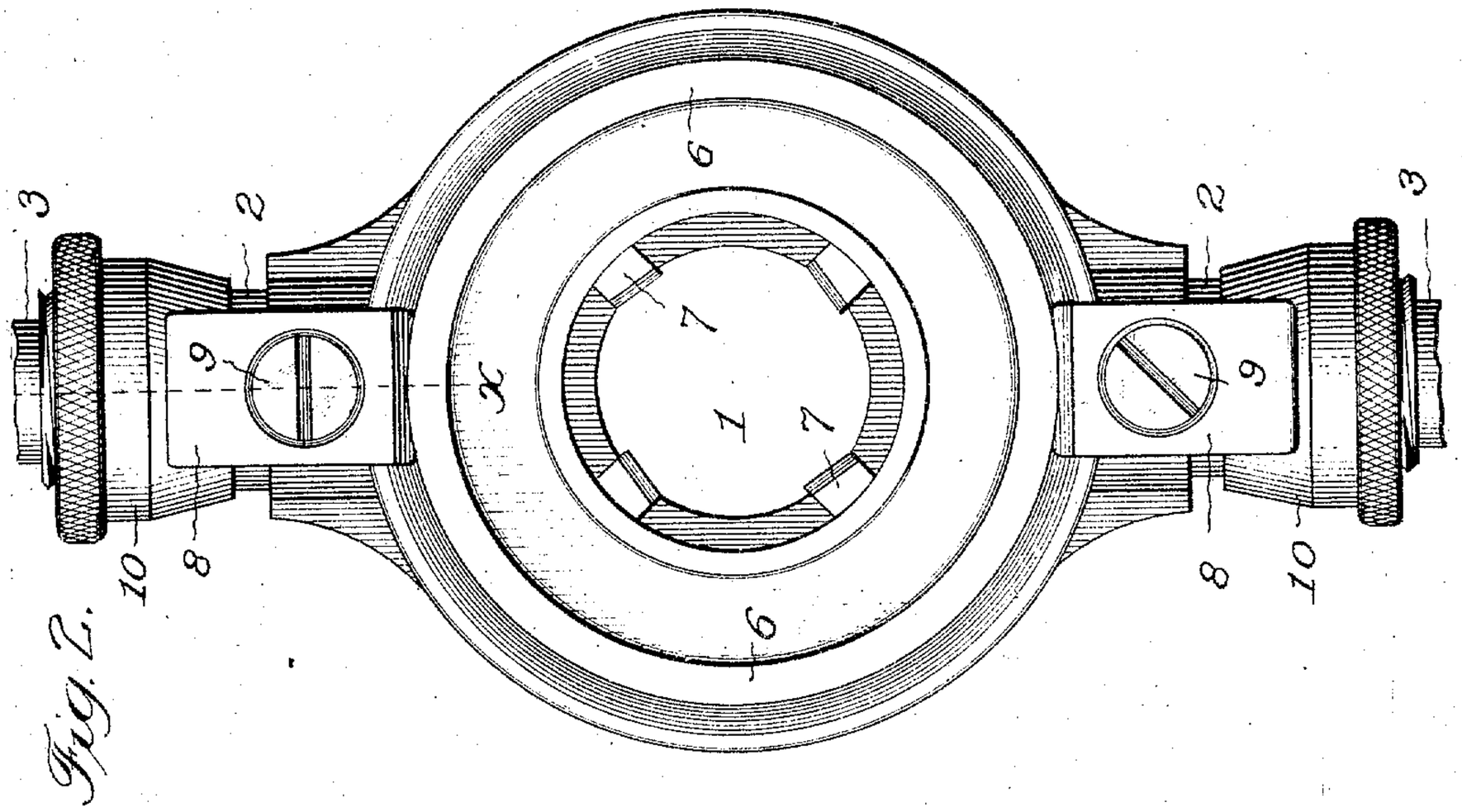

Fig. 2.

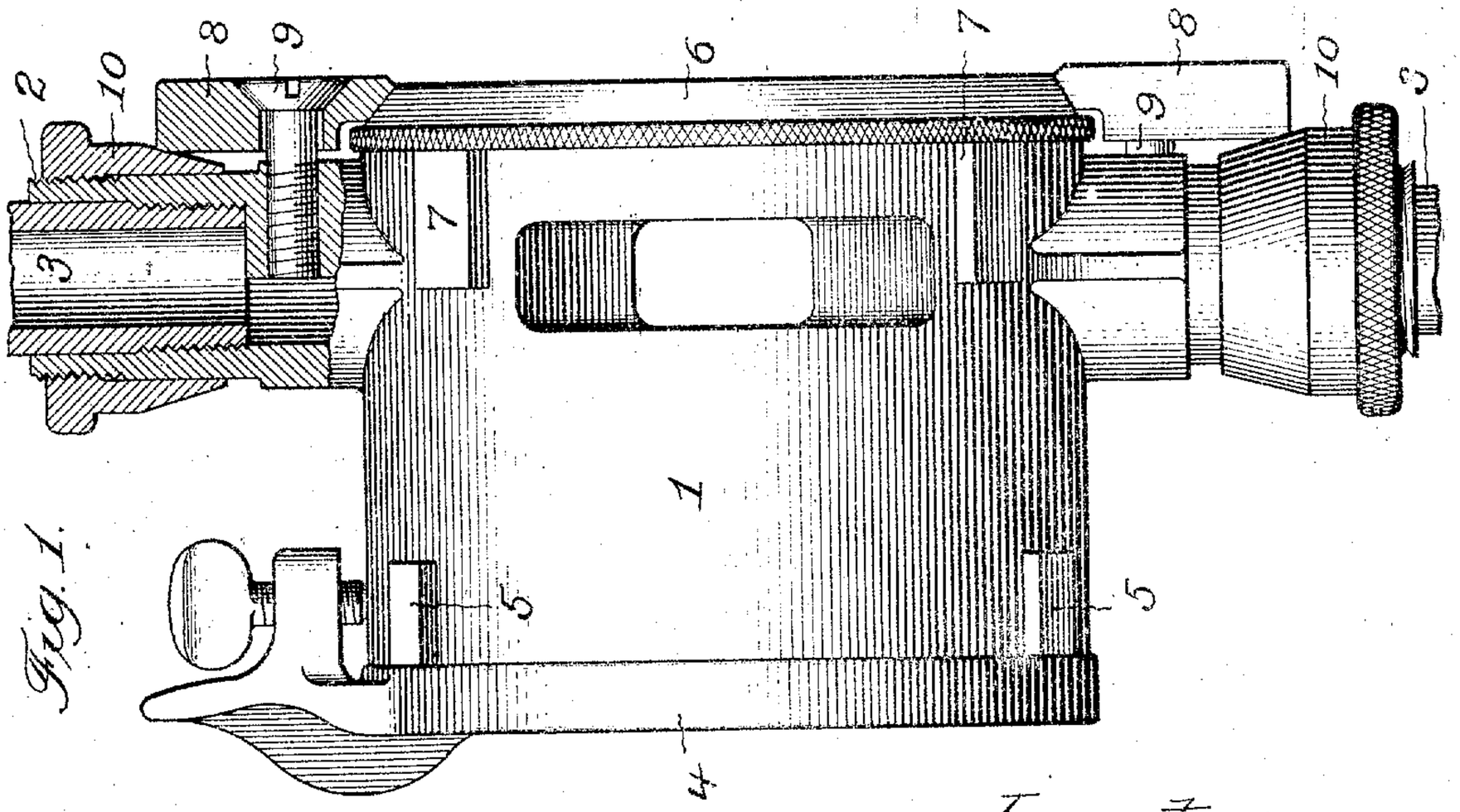

Fig. 1.

Attest:
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by Robert Burns Atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. LEAVER, OF CHICAGO, ILLINOIS, ASSIGNOR TO NYE TOOL AND MACHINE WORKS, A CORPORATION OF ILLINOIS.

DIE-STOCK.

986,473. Specification of Letters Patent. Patented Mar. 14, 1911.

Application filed September 6, 1910. Serial No. 580,504.

To all whom it may concern:

Be it known that I, WILLIAM H. LEAVER, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Die-Stocks, of which the following is a specification.

This invention relates to portable die-stocks employed in screw-threading steam, gas and like pipes, and has for its object to provide a simple, compact and efficient structural formation and combination of parts whereby the radially adjustable screw cutting dies are securely locked at their desired adjustment in a ready and substantial manner, all as will hereinafter more fully appear.

In the accompanying drawings: Figure 1, is a side elevation, with parts in section on line *x*, of a die stock embodying the present improvement. Fig. 2, is a front elevation of the same.

Similar reference numerals indicate like parts in both views.

Referring to the drawings, 1 represents the head or body of the die stock, usually of a cylindrical shape, and provided with radial socket sleeves 2 for the usual removable tubular handles 3 by which the manual rotation of the die stock is effected. At its rear end said head is provided with the usual revoluble cam plate 4 by which the work holding jaws 5 are simultaneously moved in a radial direction to engage with or disengage from the work, while at its front end said head is provided with the usual revoluble cam plate 6 by which the screw-cutting jaws or dies 7 are simultaneously adjusted in a radial direction to the diameter required. The described construction is common to die-stocks now in general use, and the present improvement involves connection therewith a construction of parts as follows:—

8 are a pair of lever clamps arranged in opposed diametric relation at the margin of the circular cam plate 6 aforesaid, and pivotally attached by headed screws 9, or like pivotal connections, to the head or body 1 as shown. In the preferred form of the present improvement the inner ends of said lever clamps are beveled and have bearing upon a correspondingly beveled margin of the cam plate 6, with a view to project but little if any beyond the face of the cam plate, to constitute obstructions at such point in the practical use of the die-stock, and more particularly, to prevent a turning displacement of the lever clamps when the parts are in a loosened condition during an adjustment of the die jaws.

10 are revoluble annular wedge sleeves, screwing upon the screw-threaded peripheries of the handle sockets 2 before described, and having tapering or wedge form inner portions adapted to engage beneath the outer ends of the lever clamps 8, so that in the adjustments of said sleeves, pivotal movement of the lever clamps upon their pivot screws 9 will take place, to in one case, bind the inner ends of said lever clamps firmly upon the cam plate 6 to hold the same to the required circular adjustment at which it was placed, and in the other case to relieve such binding action and permit a free circular adjustment of the cam plate.

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

1. In a die stock, the combination of a head or body provided with a series of radial die-jaws and a radial socket sleeve for the attachment of a handle, a circularly adjustable cam plate arranged at one end of said head and adapted to impart simultaneous radial adjustment to the die jaws, a clamp lever pivoted to the head with its inner end bearing upon the cam plate, and a revoluble wedge sleeve screwing upon the periphery of the handle socket with its inner wedge portion in operative engagement with the outer end of the clamp lever.

2. In a die-stock, the combination of a head or body provided with a series of radial die jaws and a radial socket sleeve for the attachment of a handle, a circularly adjustable cam plate arranged at one end of said head and adapted to impart simultaneous radial adjustment to the die jaws, a clamp lever pivoted to the head with its inner end bearing upon the cam plate, and

a revoluble wedge sleeve screwing upon the periphery of the handle socket with its inner wedge portion in operative engagement with the outer end of the clamp lever, the abutting portions of the clamp lever and cam plate being beveled to hold the lever from a turning displacement.

Signed at Chicago, Illinois, this 3rd day of September 1910.

WILLIAM H. LEAVER.

Witnesses:
ROBERT BURNS,
D. N. JOHNSON.