W. H. GREENE.

DRILL FEED.

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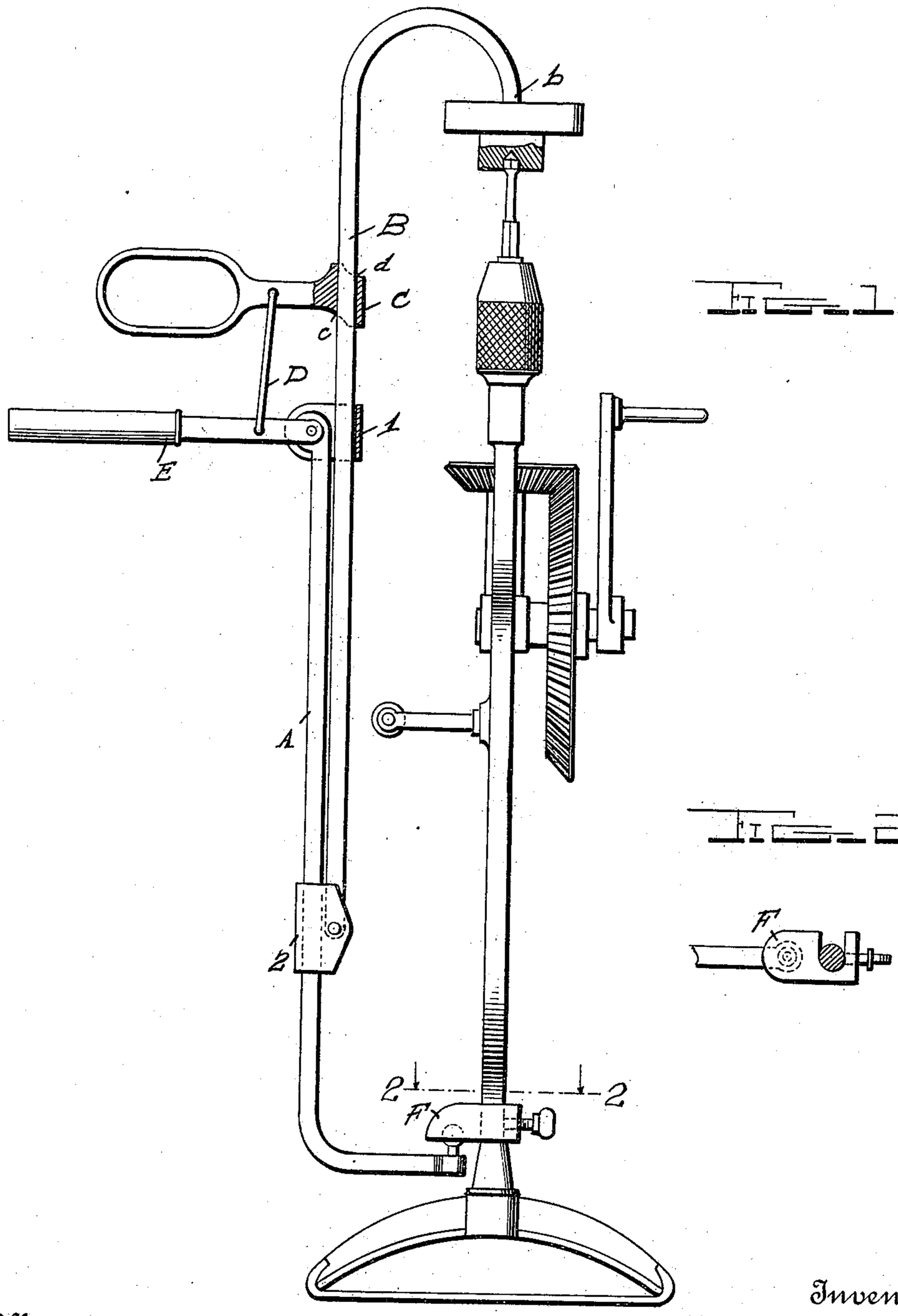
975,031.

Patented Nov. 8, 1910.



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UNITED STATES PATENT OFFICE.

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DRILL-FEED.

975,031. Specification of Letters Patent. Patented Nov. 8, 1910.

Application filed June 3, 1909. Serial No. 500,028.

To all whom it may concern:

Be it known that I, WILLIAM HARVEY GREENE, a citizen of the United States, residing at Ann Arbor, in the county of Washtenaw and State of Michigan, have invented a new and useful Drill-Feed, of which the following is a specification.

My invention relates to attachments for hand and breast drills.

The object of the invention is to provide a device whereby the material to be acted upon by the drill may be held against the same and whereby the attachment may be adjusted to accommodate material of differing thicknesses.

Broadly speaking, the invention comprises slidably connected rods, one of which is adapted to be detachably secured to the stock of the drill, the other of which is provided with an anvil to receive the work. The handle is pivoted to the outer end of the rod which is attached to the stock and has a connection with the clutch mounted upon the other rod, whereby the downward motion of the lever will cause the anvil to advance toward the drill.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a side elevation of the drill showing the attachment, partly in section, applied thereto; Fig. 2 is a transverse section on the line 2—2 of Fig. 1.

Referring more especially to the drawings, A and B represent the two rods, the outer end of the latter one being provided with the curved anvil *b* and the outer end of the former one being turned at right angles and having universally connected thereto a coupling device F carrying a set screw in its outer end for engaging the shank of the drill. The rods A and B are connected together by yoke members 1 and 2, the former being carried at the outer end of the rod A and the latter being carried at the inner end of the rod B, and surrounding the rod A.

Pivoted to the outer end of the rod and between the legs of the yoke member 1, is a lever E which is connected by a link D to a clutch member C. This clutch member C surrounds the rod B above the sleeve 1 and when tilted downwardly at its outer end, binds upon the rod at the points *c*, *d* and thus causes the rod B to move with the clutch member. Therefore, if the lever E is depressed, it will pull down upon the clutch member C and cause it to bind upon the rod and pull said rod downwardly so that the yoke member 2 slides upon the rod A and the anvil *b* is brought closer to the drill. By holding onto the lever E with one hand and placing the forefinger through the loop in the outer end of the clutch member C and pressing downwardly thereon, the operator can work the lever E up and down, which will produce the following result. Upon the downward movement of the lever E, the clutch member will grasp the rod B and carry it along with it. Upon the upward movement of the lever E, still maintaining the downward pressure on the loop end of the clutch, the clutch member will slide upon the rod B and thus position itself to secure a fresh grip. The reverse operation may be carried out by grasping the lever E in the same manner and exerting an upward pressure upon the outer end of the clutch member C. Now, when the lever E is moved upwardly, the clutch member will grasp the rod and move it along with it and when the lever is moved downwardly the clutch member will slide idly over the rod B, so as to get a fresh grip. Continued movement in either direction will eventually move the rod to its limit.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined in the appended claims.

I claim:

1. A device of the class described, comprising a pair of slidably connected members, a drill connecting member hinged to one of said members, an anvil carried by the other member, and means to draw the anvil toward the connecting member.

2. A device of the class described, comprising a pair of slidably connected members, a drill connecting member having universal connection with one of the members, an anvil carried by the other member, a clutch slidably mounted on one of said members, and means pivoted to the other of said members and having connection with the clutch to draw the anvil toward the drill connecting member.

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