

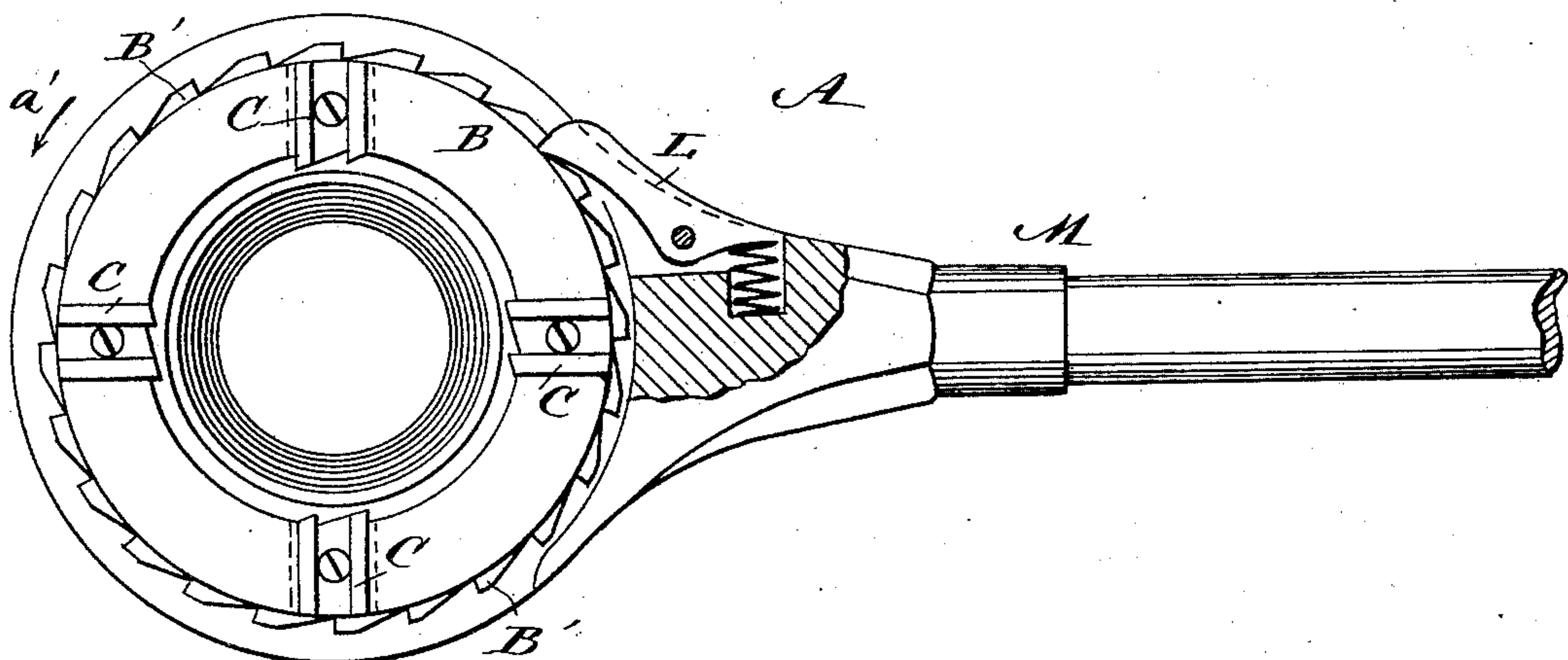
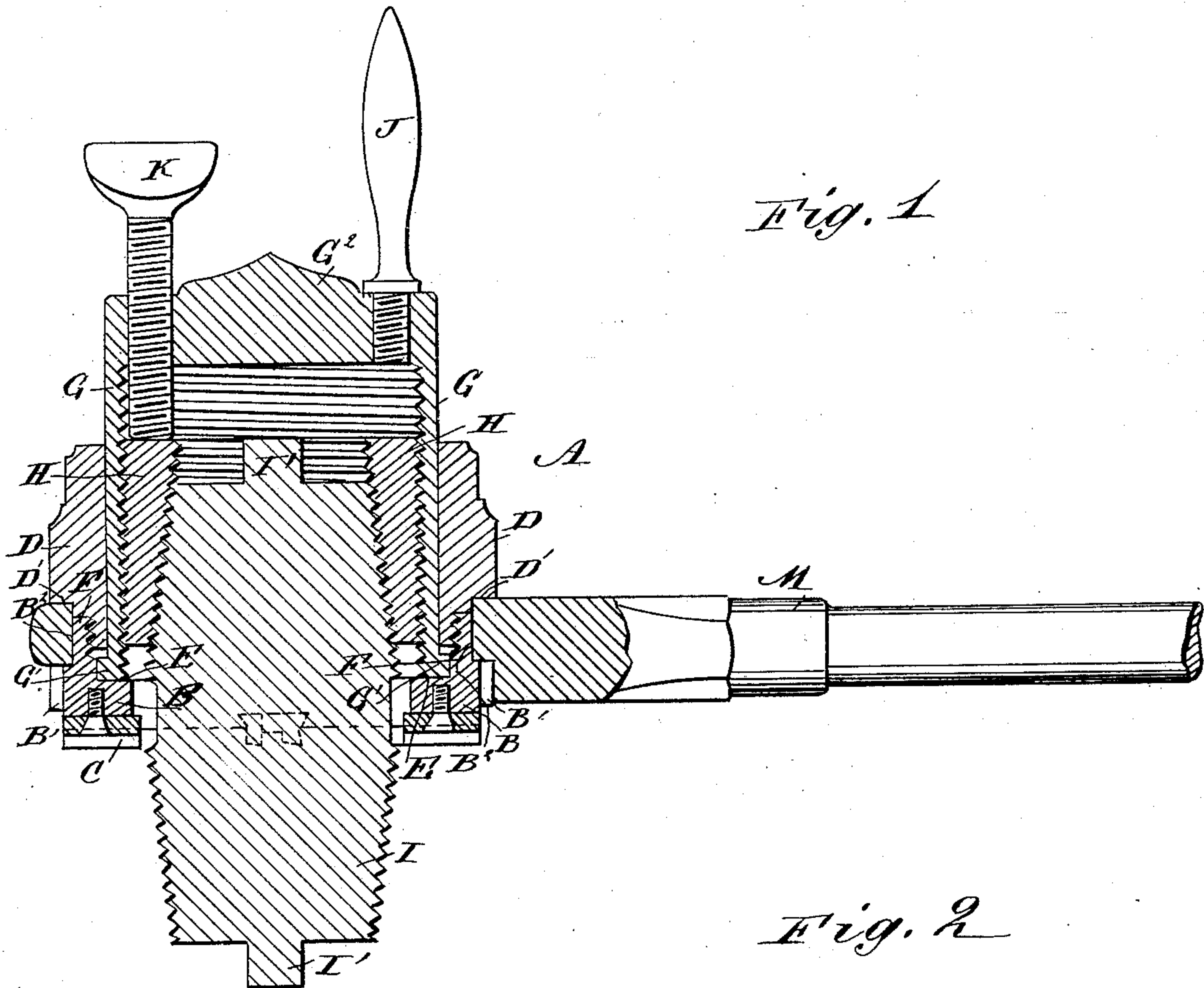
(No Model.)

A. H. DONNALLY.

FACING TOOL.

No. 353,485.

Patented Nov. 30, 1886.



WITNESSES:

*C. Naux*  
*C. Sedgwick*

INVENTOR:

*A. H. Donnelly*  
BY *Munn & Co*  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

ALFRED HUGH DONNALLY, OF FOXBURG, PENNSYLVANIA.

## FACING-TOOL.

SPECIFICATION forming part of Letters Patent No. 353,485, dated November 30, 1886.

Application filed May 4, 1886. Serial No. 201,063. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED HUGH DONNALLY, of Foxburg, in the county of Clarion and the State of Pennsylvania, have invented a new and Improved Facing-Tool, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved facing-tool, specially adapted for truing up the faces of oil-well joints.

The invention consists of a face-plate carrying the cutters and provided with ratchet-teeth, of a ratchet-lever and pawl operating on the face-plate, and of a feeding device for the face-plate.

The invention also consists of various parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

Figure 1 is a longitudinal vertical section of my improvement; and Fig. 2 is a bottom view of the same, parts being in section.

The tool A is provided with a ring-shaped face-plate, B, to which are secured in any suitable manner the tools C. The face-plate B is provided with an internally-threaded annular flange, F, which is screwed on the threaded lower end of the collar D, which encircles an internally-threaded casing or cylinder, G. A flange, G', on the end of the casing G fits within the flange F, and bears against the inner face, E, of the face-plate B. An internally and externally threaded ring or sleeve, H, is screwed into the casing G, which sleeve in turn is screwed upon and supported by a tapering or cylindrical spindle I. The casing G is closed at its upper end, G<sup>2</sup>, which is provided with a handle, J, and a set-screw, K, which latter screws through the end G<sup>2</sup> and upon the upper edge of the threaded ring or sleeve H.

The face-plate B is provided on its periphery with ratchet-teeth B', which engage with a spring-pawl, L, pivoted on the ratchet-lever M, and which has its bearings partly in

an annular recess, B<sup>2</sup>, of the face-plate B and partly in a recess, D', of the collar D. The lever M moves in a plane parallel with the face-plate B and its collar D, and the operator can impart a turning motion to the face-plate B with the lever M by oscillating the latter, so that its pawl L engages the ratchet-teeth B'.

The spindle I is either conical or cylindrical on its lower end, which is also provided with a screw-threaded exterior, which screws into the device to be faced or trued up. The ends of the spindle I are provided with square offsets I', so that a wrench or other tool can be applied for turning the spindle.

The operation is as follows: The tool A is supported by the spindle I, which is attached to the device to be trued, as above described, so that when the operator oscillates the lever M the face-plate B is turned in the direction of the arrow a', and the cutting-tools C operate on the surface to be trued, with which they are in contact. The cutting-tools C are fed upon the surface to be trued by turning the cylinder or casing G by means of its handle J, so that the casing G screws downward on the ring H, and the set-screw K, being screwed against the upper edge of the ring or sleeve H, prevents all upward movement of the sleeve, which is thus held rigidly on the spindle I. This operation is continued until the cutters C have trued the face of the device to be operated upon.

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

1. In a facing-tool, the combination of a face-plate provided with cutters, and a ratchet-lever for turning the face-plate, with a casing screwed on a cylinder attached to a spindle, substantially as shown and described.

2. In a facing-tool, the combination of a face-plate provided with cutters and ratchet-teeth, a collar attached to the face-plate, and a ratchet-lever for turning the face-plate, with a casing screwing on a sleeve, a handle attached to the said casing, and a set-screw screwing on the casing to hold the same in place, substantially as shown and described.

3. In a facing-tool, the face-plate B, having  
the annular flange F, the cutting-tools C, at-  
tached to the face-plate, the collar D, screwed  
to the face-plate, and the ratchet-lever M, oper-  
5 ating on the ratchet-teeth B' of the face-plate  
by its spring-pawl L, in combination with the  
casing G, having the rim G', the handle J, at-  
tached to the casing G, the set-screw K, screwed  
in the end G<sup>2</sup> of the casing, and the threaded  
ring or sleeve H, screwed in the casing, sub- 10  
stantially as shown and described.

ALFRED HUGH DONNALLY.

Witnesses:

DANL. GALVIN,

M. J. LEE.