

(No Model.)

S. G. ARNOLD.
CARPENTER'S ROLL GAGE.

No. 435,027.

Patented Aug. 26, 1890.

Fig. 1.

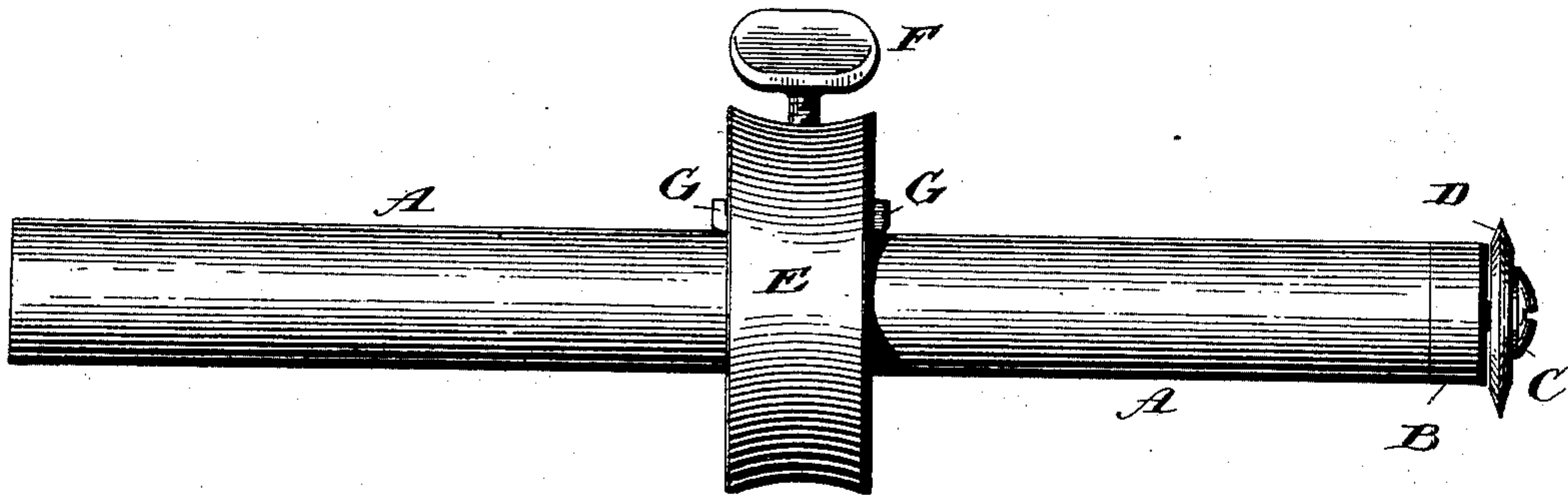


Fig. 2.

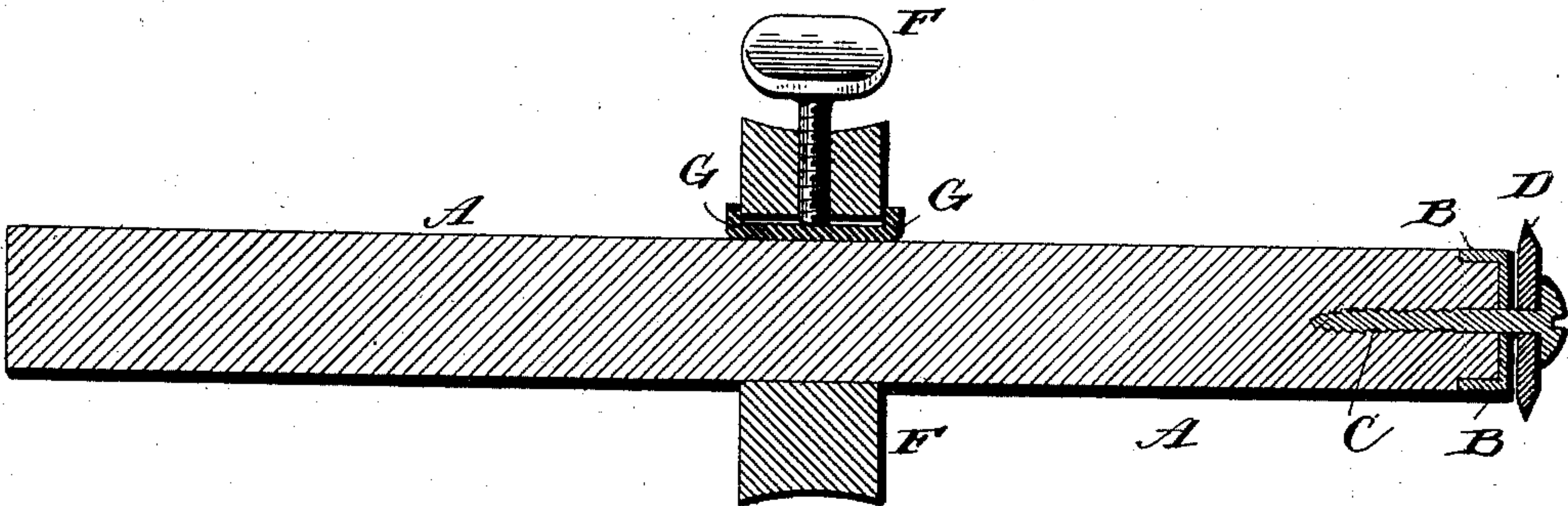


Fig. 3.

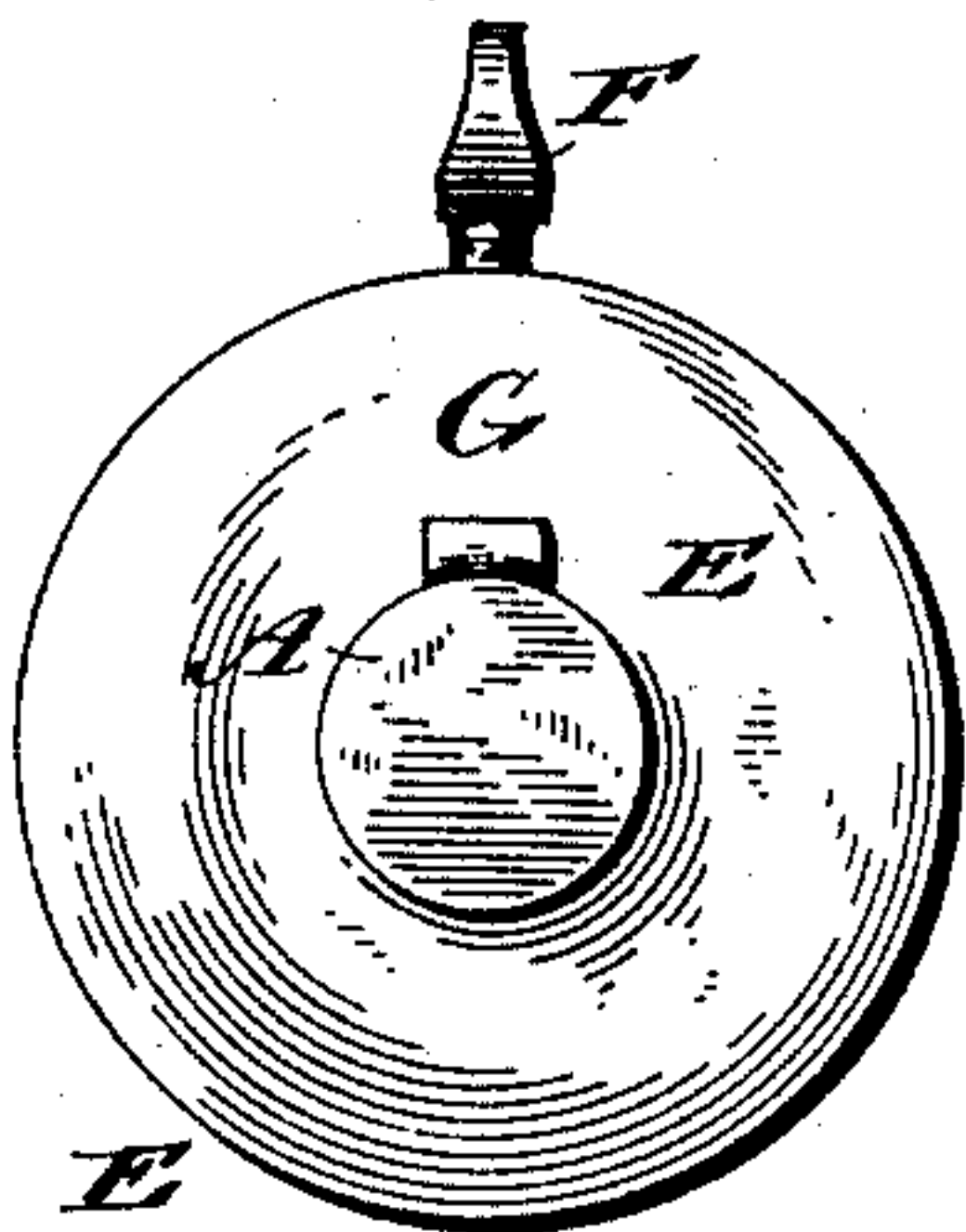


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

SAMUEL G. ARNOLD, OF CHESTER, CONNECTICUT.

CARPENTER'S ROLL-GAGE.

SPECIFICATION forming part of Letters Patent No. 435,027, dated August 26, 1890.

Application filed March 13, 1890. Serial No. 343,770. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL G. ARNOLD, a citizen of the United States, residing at Chester, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Carpenters' Roll-Gages; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain new and useful improvements in carpenters' gages of that class in which the acting portion is a roller suitably held to the stock; and it has for its object, among others, to provide an improved gage of this class which shall be simple, cheap, efficient, and durable.

It has been found from practice that where the set-screw bears on the stock it sooner or later wears into the stock and mars it to such an extent that the tool is soon ruined.

The object of this invention is, primarily, to provide a construction whereby this marring of the stock by the set-screw will be avoided.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a side elevation of my improved gage. Fig. 2 is a longitudinal section through the same. Fig. 3 is an end view. Fig. 4 is a perspective view of the bearing-plate removed.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates the stock, at one end of which is a metallic cap B, fitting over the end and seated in a socket therein, so that the outer surface of the cap will be flush with the outer periphery of the stock, as shown in Figs. 1 and 2.

C is a screw screwed into the end of the stock through a hole in the end of the cap and having a flat head, between which and the end of the cap on a smooth portion of the screw is sleeved, so as to freely revolve thereon, a circular disk D, having its periphery beveled upon both sides, as shown in Fig. 2. A little play should be provided, as shown, to prevent friction between the sides of the disk and the head of the screw or the end of the cap.

E is the adjustable gage-block adapted to slide on the stock, and through which is tapped a set-screw F; but instead of bearing on the stock the inner end of this set-screw bears upon the plate G, which may be of any suitable material, and is of the form shown in Fig. 4, having its ends bent at right angles to its length, as shown. This plate is fitted in a recess in the inner face of the gage-block, the ends engaging the sides of the block and preventing displacement of the plate, the said plate bearing for its entire length on the stock and the set-screw having its end bearing thereon, as shown in Fig. 2. It will thus be seen that by this construction the set-screw does not come in contact with the stock, and hence cannot mar it.

What I claim as new is—

The gage described, consisting of the stock A, the metallic cap B, fitted over one end of the stock and held in a socket therein, the screw C, secured into the end of the stock through a hole in the end of the cap and having a flat head, the rotary cutter loosely sleeved on the smooth portion of the screw between the head and the end of the cap, and the adjustable gage-block provided with a set-screw and wearing-plate, substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL G. ARNOLD.

Witnesses:

J. TILLOTSON CLARKE,
SAMUEL A. WRIGHT.