

(No Model.)

T. HOFSTATTER, Jr.
BORING MACHINE.

No. 284,850.

Patented Sept. 11, 1883.

Fig. 1.

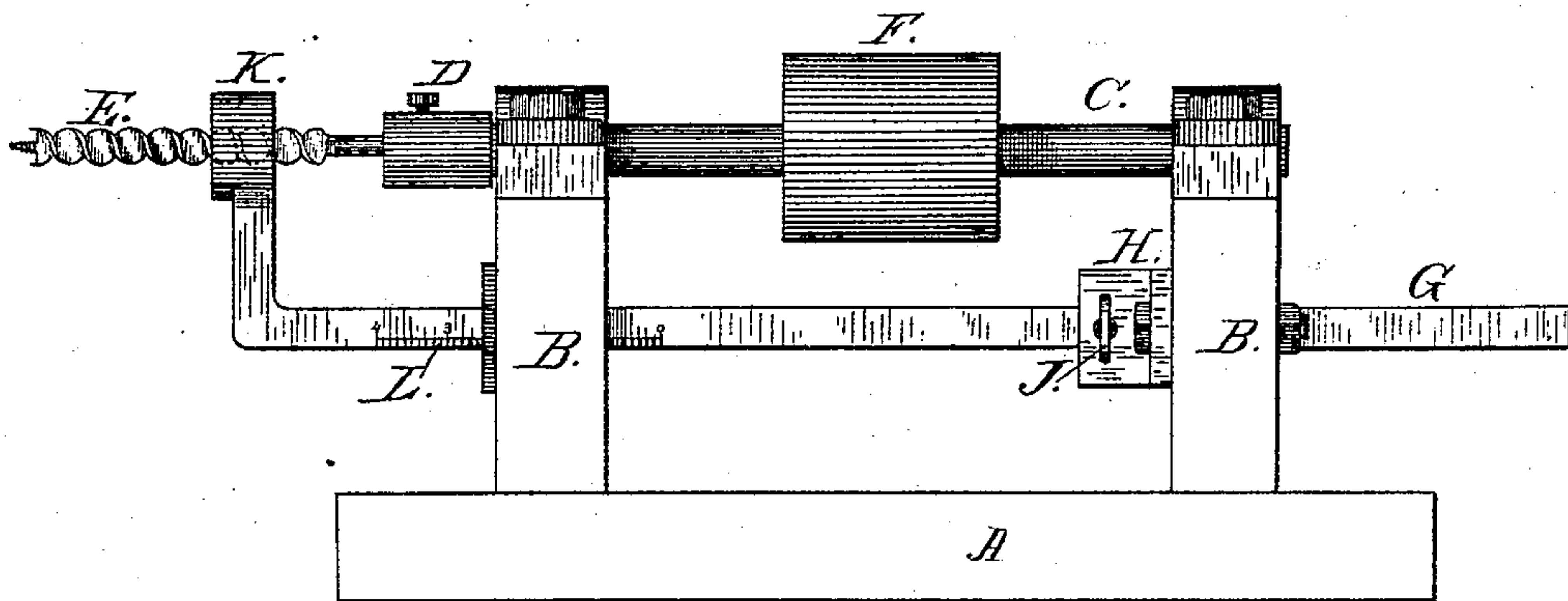


Fig. 2.

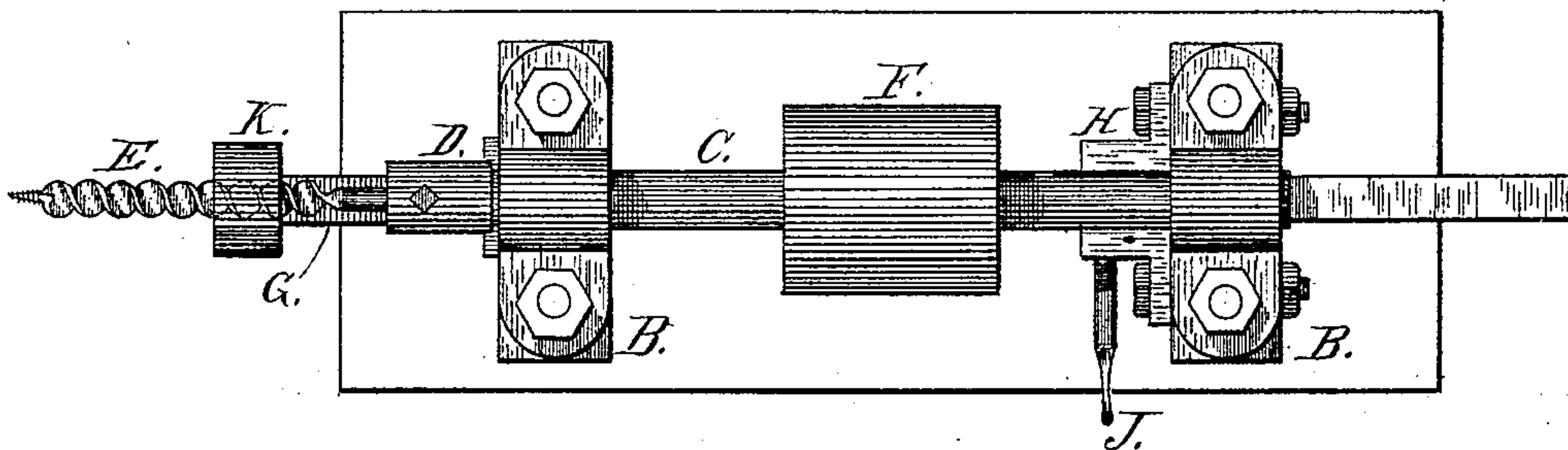
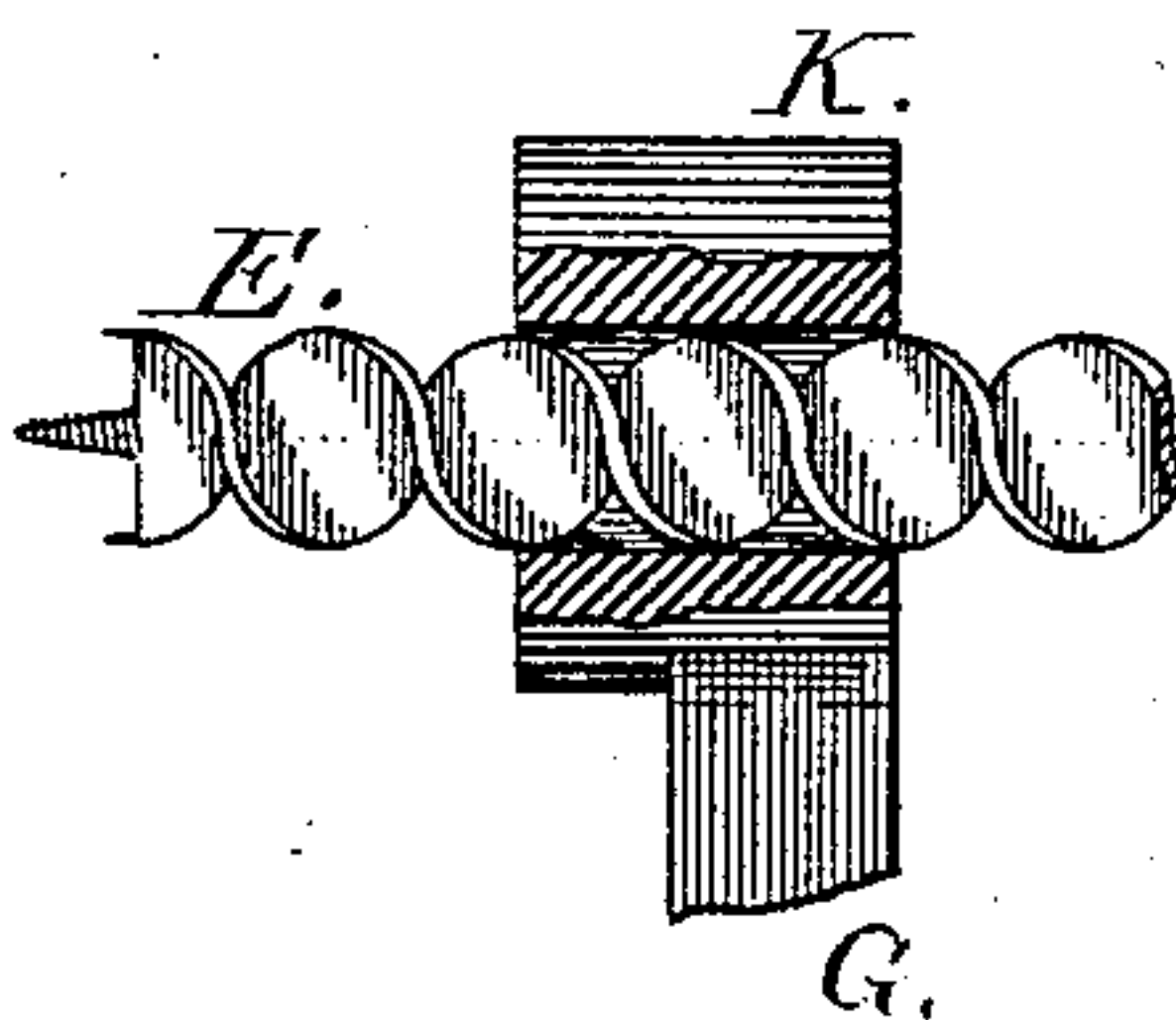


Fig. 3.



Witnesses.

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THEODORE HOFSTATTER, JR., OF NEW YORK, N. Y.

BORING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 284,850, dated September 11, 1883.

Application filed June 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, THEODORE HOFSTATTER, Jr., a resident of the city, county, and State of New York, have invented a new and useful Improvement in Boring-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to an improved attachment for boring-machines, and has for its object to provide an adjustable stop-gage and guide which shall limit the penetration of the auger, and at the same time support and center it as the piece to be bored is pushed and pressed against it.

It consists in a collar adapted to closely encircle the auger or boring-tool, and yet allow its free rotation therein, secured upon a bar adapted to slide longitudinally in the frame of the machine parallel with the auger, and to be fixed by a set-screw, and which is graduated to an exact scale on one edge to facilitate a nice adjustment of the gage to determine any required depth of bore.

In the accompanying drawings, Figure 1 is a side elevation of a simple boring-machine having my improvement combined therewith; Fig. 2, a plan view of the same, and Fig. 3 a detached sectional view of the gage-collar with the auger led through the same.

A represents the base, B B the pillow-blocks, and C the rotating shaft, of a simple boring-machine. The boring-shaft C, fitted at its outer end with a chuck, D, carrying an auger, E, is made to rotate in stationary boxes upon the pillow-blocks, the power being applied, as usual, to a pulley, F, on the shaft. A longitudinally-sliding bar, G, is supported in line parallel with the shaft C in suitable bearings formed for the purpose in the pillow-blocks B B, and is carried through a box, H, secured to one of the blocks, and made fast therein, when adjusted longitudinally, by means of a set-screw, J, led through the side of the box. The outer end of the bar G projects in line with the auger, and is bent at a right angle to approach the same. (See Fig. 1.) Upon this end is formed or fitted an annular gage or collar, K, adapted to so encircle the bit or auger E as to support and guide the same, without, however, impeding or affecting its free rotation. A properly-graduated scale, L, is

marked upon the bar G, to facilitate setting the gage K at any desired distance from the end of the auger and indicate the depth of its penetration as limited by the stop-gage.

In use, the gage K, being set at the proper point to permit a penetration of the auger to the required depth in the work to be executed, is thereupon fixed by means of the set-screw J. The work brought up and fed against the auger in the customary manner will necessarily be arrested by the gage so soon as the hole bored by the auger has reached the determined depth. By this means any number of holes may be rapidly bored upon the machine to exactly the same depth, this depth being varied at pleasure by a longitudinal adjustment of the bar, and measured and accurately indicated by reference to the graduated scale L, marked thereon.

It is evident that the gage-stop K need not completely encircle the auger, but may be made in the form of a fork or U-shaped. I contemplate also causing the gage to traverse longitudinally along the length of the auger in suitable supporting-ways by means of an endless screw rotating parallel with the auger and made to engage a nut fixed in the gage.

I claim as my invention—

1. In a boring-machine, the combination, with its rotating boring-shaft and with a bit or an auger carried thereby, of a stop-gage adapted to traverse longitudinally for adjustment in line parallel with said shaft, and to embrace the bit or auger to limit the depth of its penetration, substantially in the manner and for the purpose herein set forth.

2. The combination, with a rotating boring-shaft, C, of the parallel longitudinally-sliding bar G, the gage K, carried upon the end of said bar and adapted to embrace the auger E, fitted to the boring-shaft, the set-screw J, adapted to lock the bar when adjusted, and the scale L, marked upon the bar to indicate the position of the gage with reference to the end of the auger, all substantially in the manner and for the purpose herein set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THEODORE HOFSTATTER, JR.

Witnesses:

A. W. STIEGER,
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