(No Model.)

D. E. BORGER.

SAW FILING AND GAGING DEVICE.

No. 305,660. Patented Sept. 23, 1884.

Fig. 1.

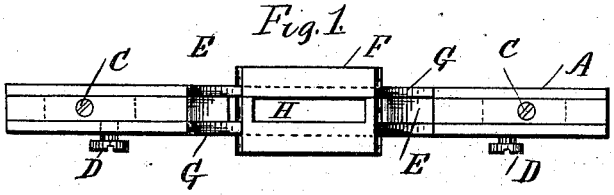


Fig. 2.

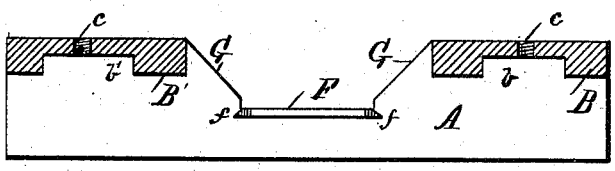


Fig. 5.

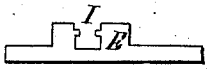


Fig. 3.

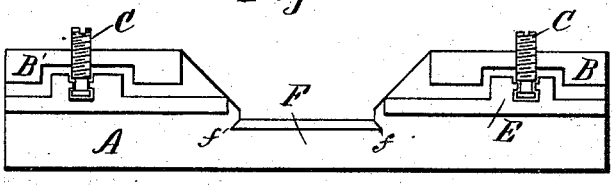
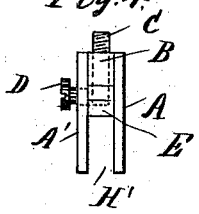


Fig. 4.



Witnesses.
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By W. J. Fitzgerald,
his Attorney.

UNITED STATES PATENT OFFICE.

DAVID E. BORGER, OF COAL HILL, PENNSYLVANIA.

SAW FILING AND GAGING DEVICE.

SPECIFICATION forming part of Letters Patent No. 305,660, dated September 23, 1884.

Application filed March 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, D. E. BORGER, a citizen of the United States, residing at Coal Hill, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Saw-Dressing Appliances; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this improvement is to produce a saw-dressing appliance adapted to facilitate the filing and gaging of the clearing-teeth of crosscut-saws to uniform size. These results are attained by the mechanism illustrated by the drawings herewith filed as part hereof, in which the same letters of reference denote the same part in all the views.

Figure 1 is a top or plan view. Fig. 2 is a side elevation, partly in section. Fig. 3 is a side elevation with one of the side plates removed, showing the interior parts and their relative positions. Fig. 4 is an end elevation. Fig. 5 is a view of one of the parts detached and partly in section.

The body of the dress is made of two plates, A and A′, secured by brazing or riveting to intermediate pieces, B B′, recessed at *b b′*, and provided with screw-threaded perforations *c*, for the attachment and adjustment of the brass pieces E by means of the screws C, affixed thereto in recesses I, forming sockets for the screw-heads. The upper part of the appliance is recessed, and inclines G are made, at the terminations of which is a steel plate, F, dovetailed at *f* into the side plates, A A′, and provided with slot H, and extending the entire length of the side plates. The brasses E are adjustable up and down by the screws C, for the purpose of regulating the extent of the entrance of the saw-tooth into the slot H of the gaging-plate F. The screws D in the side plate A′ are for locking the brasses E in position according to the amount of filing required to put the saw-tooth in order. By placing the cutting-edge of the saw in the space H′ the clearing-tooth will enter the slot H in the gaging-plate F, and by filing the tooth down to the plate all of them will be made uniform with each other, and the saw can be used to much better advantage than when gaged in the ordinary manner.

Having explained the construction and operation of my improvement, what I claim as new, and desire to secure by Letters Patent, is—

The plates A A′, intermediate pieces, B B′, slotted plate F, adjustable pieces E E′, provided with screws C, and the set-screws D, all constructed and arranged to operate substantially as specified, for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID E. BORGER.

Witnesses:
PERRY MCCOOL,
SAMUEL REESE.