

(No Model.)

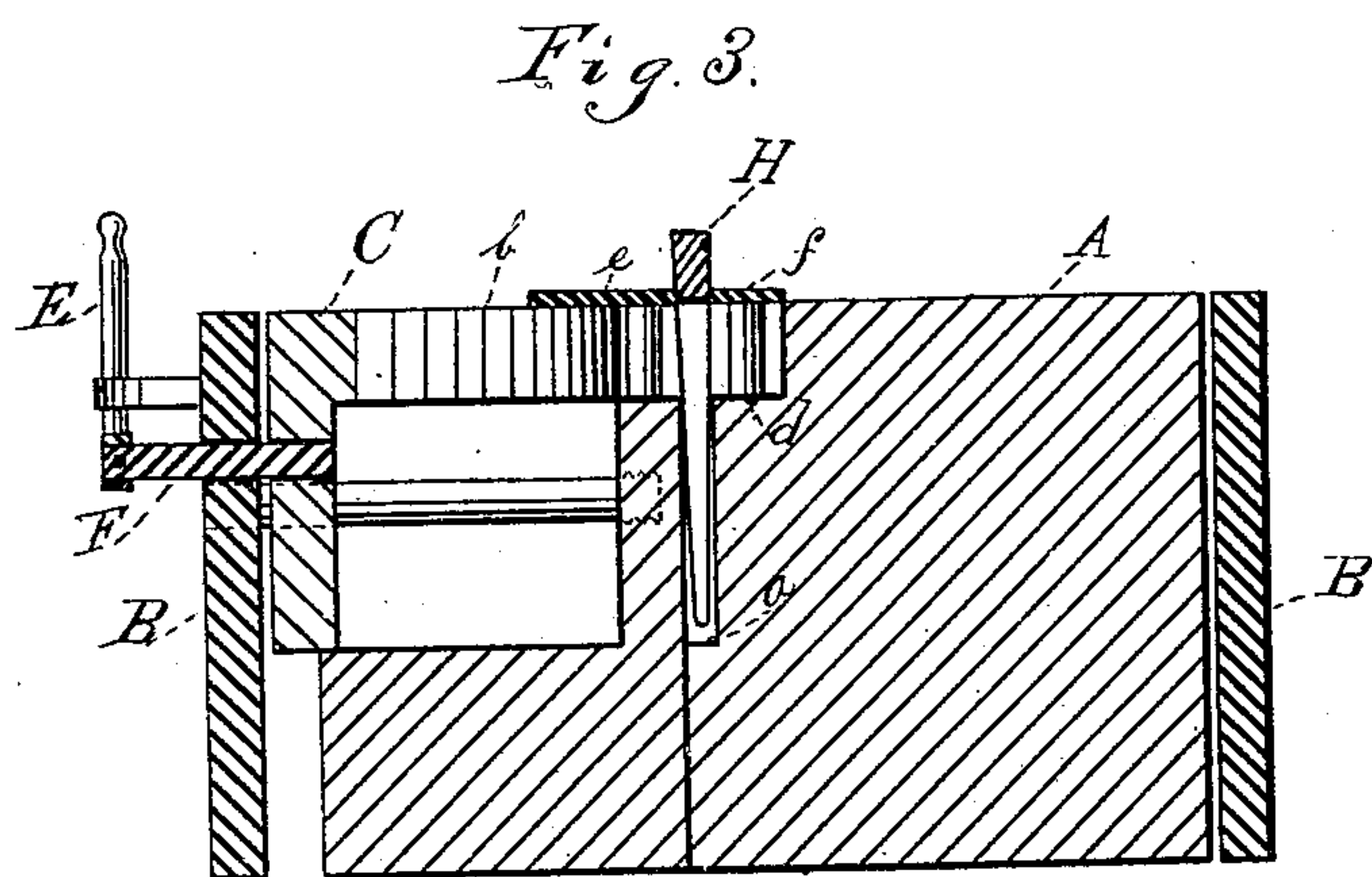
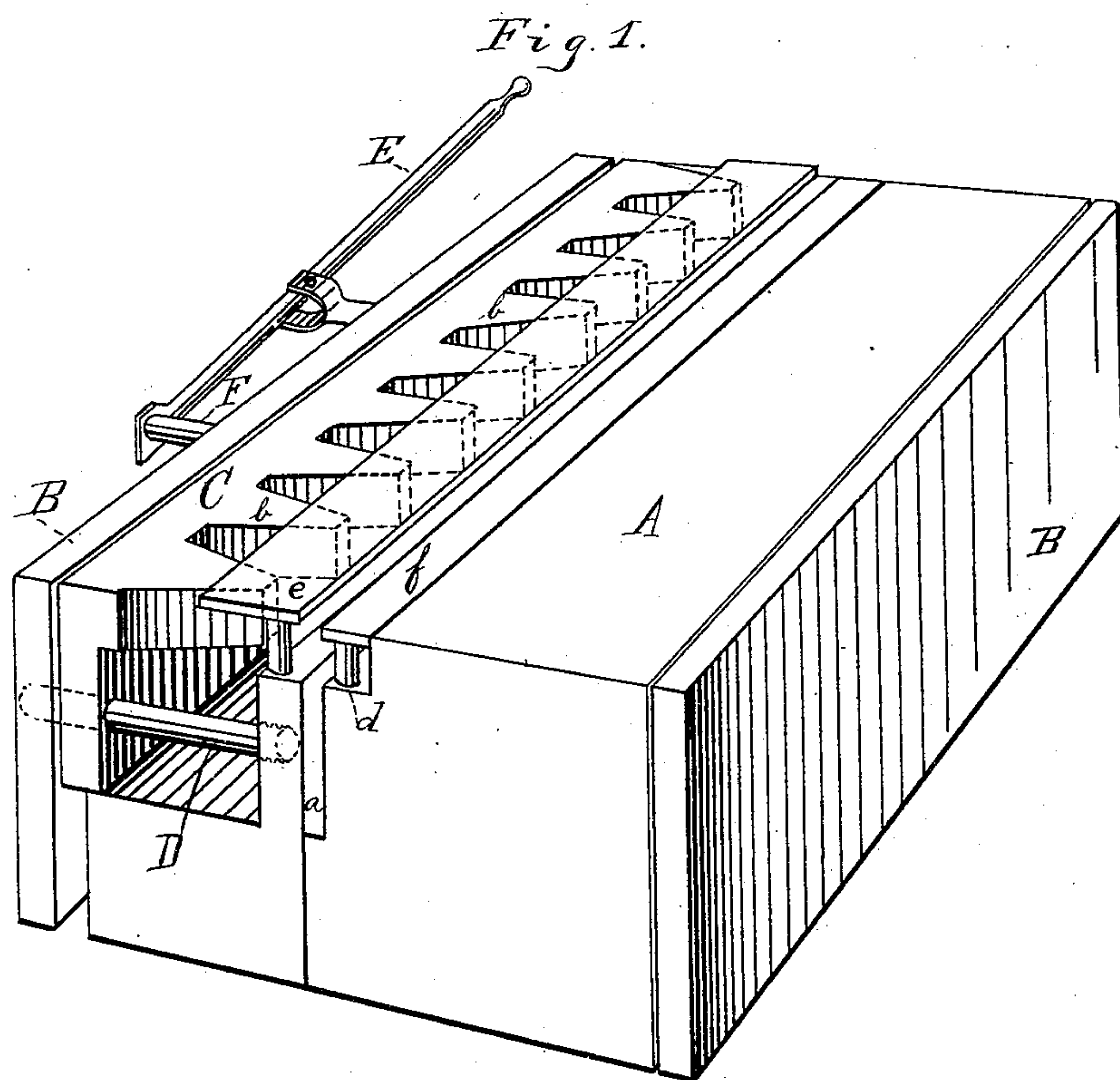
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G. N. SWEET.

RAKE STRAIGHTENING DEVICE.

No. 277,077.

Patented May 8, 1883.



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*W. E. Donnelly*

*George N. Sweet* INVENTOR  
*By Leggett & Leggett* ATTORNEYS

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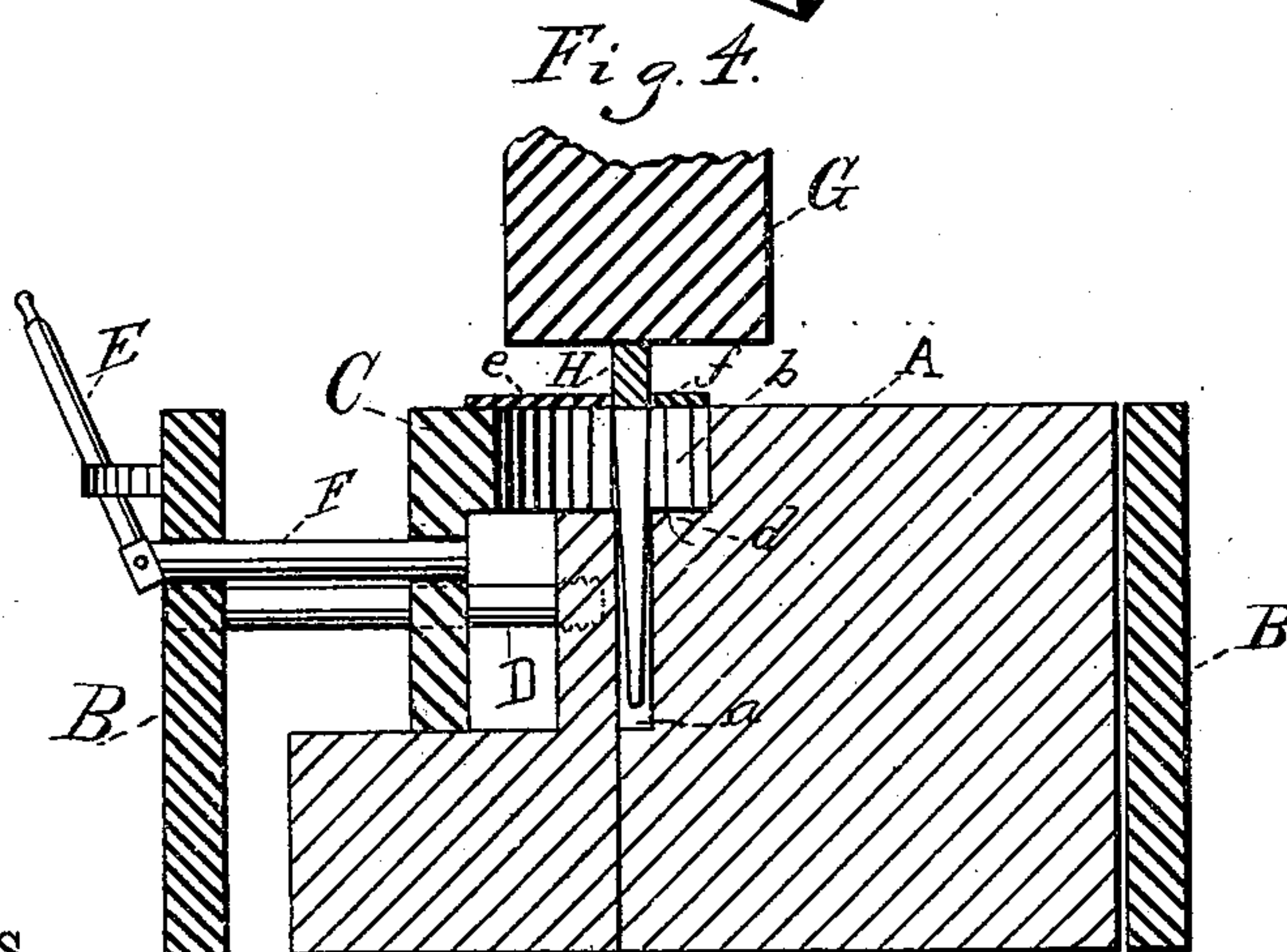
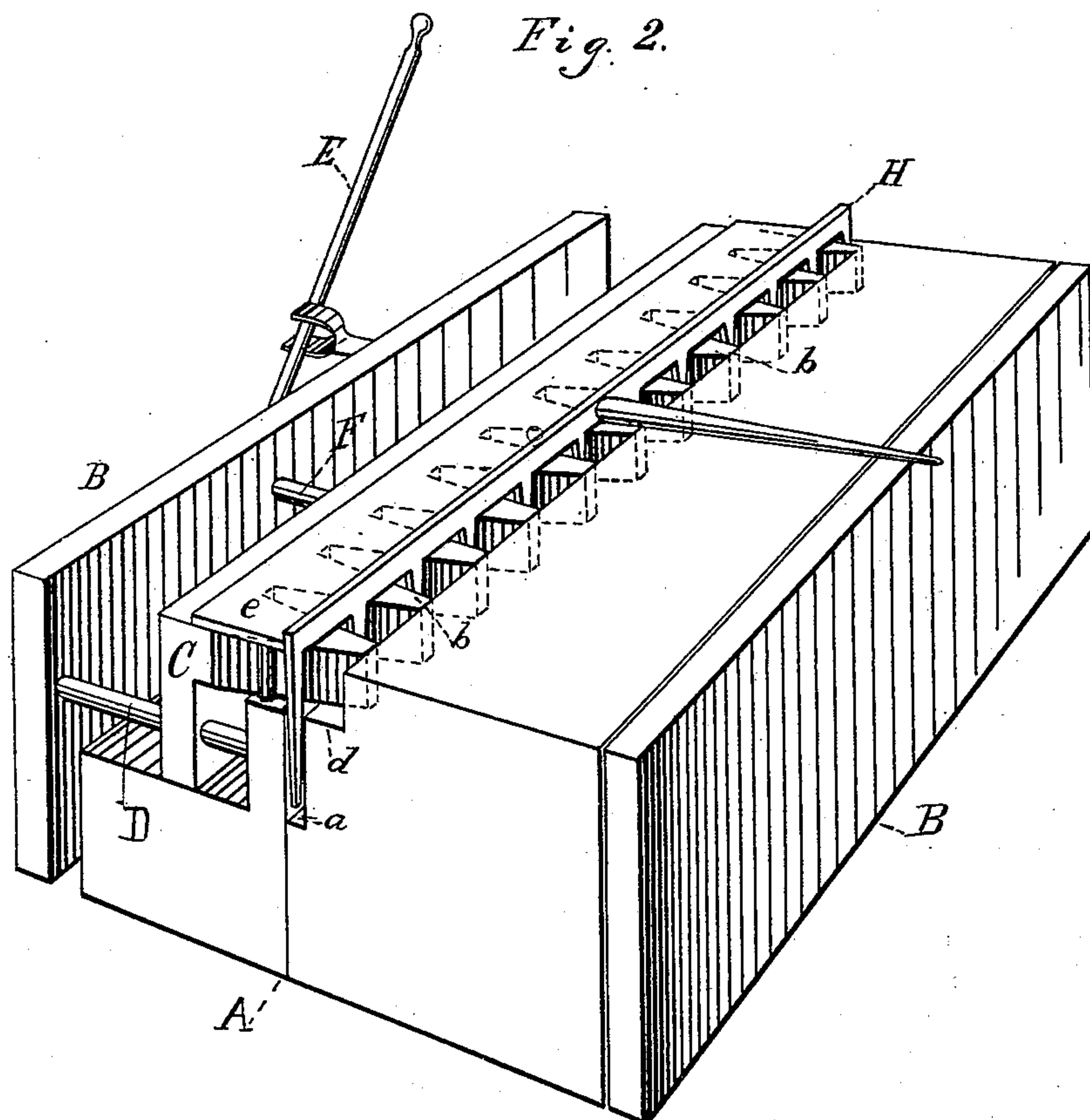
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# UNITED STATES PATENT OFFICE.

GEORGE N. SWEET, OF ASHTABULA, OHIO, ASSIGNOR TO SAMUEL R. HARRIS  
AND WARREN H. COWDERY, BOTH OF SAME PLACE.

## RAKE-STRAIGHTENING DEVICE.

SPECIFICATION forming part of Letters Patent No. 277,077, dated May 8, 1883.

Application filed July 10, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE N. SWEET, of Ashtabula, in the county of Ashtabula and State of Ohio, have invented certain new and useful Improvements in Devices for Straightening Rakes; 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 pertains to make and use the same.

My invention relates to a device for straightening rakes; and it consists in the peculiar construction of the same, as will be hereinafter fully set forth and claimed.

In the drawings, Figure 1 is an isometric view of a rake-straightening device embodying my invention, showing the sliding die of the same drawn back. Fig. 2 is an isometric view of my device, showing the sliding die in position while the rake is being operated upon by a press or hammer. Fig. 3 is a vertical cross-section taken through my device, showing the position of the parts before the teeth of the sliding die have been inserted between the rake-teeth. Fig. 4 is a vertical cross-section taken through my device, showing the position of the parts after the teeth of the sliding die have been inserted between the teeth of the rake, also showing in section a hammer and its position while operating on the rake.

A is the bed of my device, which may be formed either of one or two pieces. I prefer to make it of two pieces, as shown, as a matter of convenience in forming the central groove.

B B represent the two sides or uprights of a press or steam-hammer, between which the bed A is secured, if desired; or it may be secured to the bed-plate of the press or steam-hammer, the manner of securing it forming no part of my invention.

a is a recess formed in the bed A, into which fit the teeth of the rake.

C is a sliding die, which is provided with teeth b b. These teeth b b are formed tapering or wedge-shaped, and at such distance apart as to adapt them to enter between the teeth of a rake, as shown in Fig. 2, and support the back from below. The points of the teeth b b of the sliding die are supported in turn by resting on a ledge, d.

D is a guide-rod, of which there are two,

one on each side of the bed A; but any means for guiding the sliding die may be used.

One means for operating the sliding die C is shown in the drawings, which consists of the pivoted lever E, one end of which is attached to the rod or bar F, which in turn is secured to the sliding die, (see Figs. 3 and 4;) but it is obvious that any suitable device may be used that will operate to slide the die C back and forth.

G is meant to represent a hammer, which is designed to be of at least the same length as the rake, or that part of it which is to be operated upon.

H is a rake.

The operation of my device is as follows: The rake, or that part of it to be operated upon, being heated, is first so straightened as to bring all the teeth in the same horizontal plane. The rake is now inserted in the recess a, teeth downward, as shown in Fig. 3, it being supported at the sides by the plates e f, which are secured to the bed A in such a manner as to allow the teeth of the sliding die C to pass under them. (See Fig. 4.) After the rake is inserted, as above described, the sliding die C is brought to the position shown in Figs. 2 and 4. The press or hammer G is then brought down and the edge of the back of the rake is straightened.

What I claim is—

1. In a device for straightening rakes, the combination, with a bed-piece, of a sliding die, said die being provided with teeth adapted to enter between the teeth of a rake, substantially as and for the purpose shown and described.

2. In a device for straightening rakes, the combination, with the bed A, provided with a recess for the admission of the teeth of a rake, of a sliding die provided with teeth adapted to enter between the teeth of a rake and support the back from below, substantially as and for the purpose shown and described.

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

GEORGE N. SWEET.

Witnesses:

J. F. MUNSELL,  
JOHN N. GREEN.