

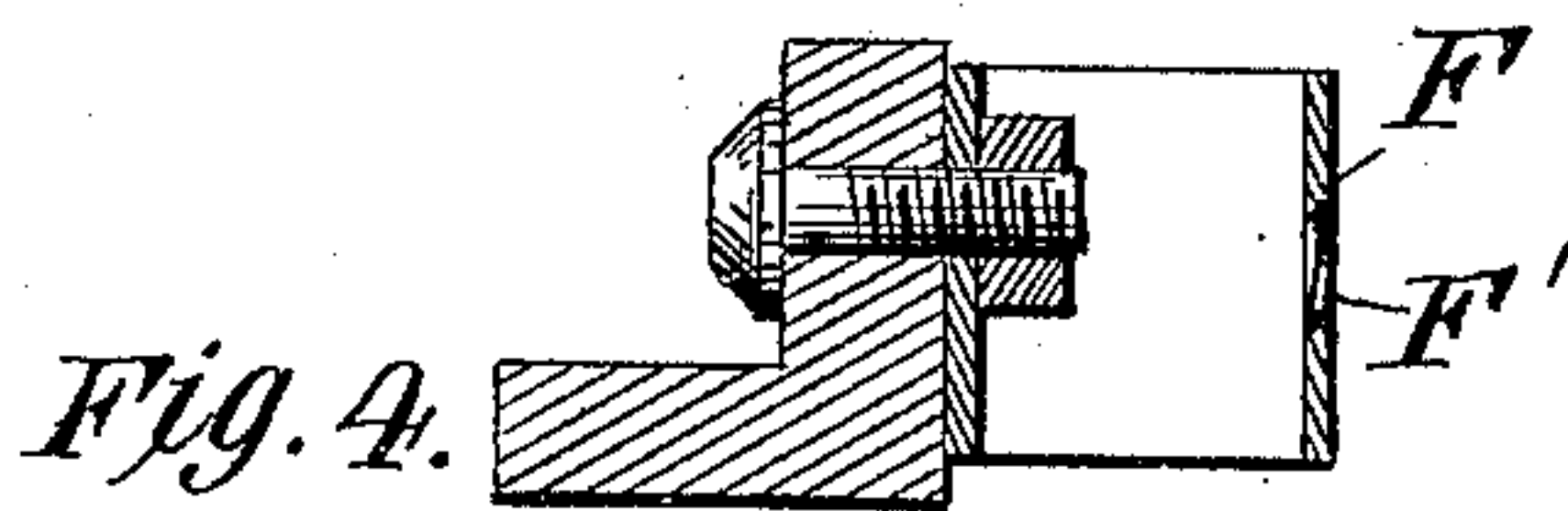
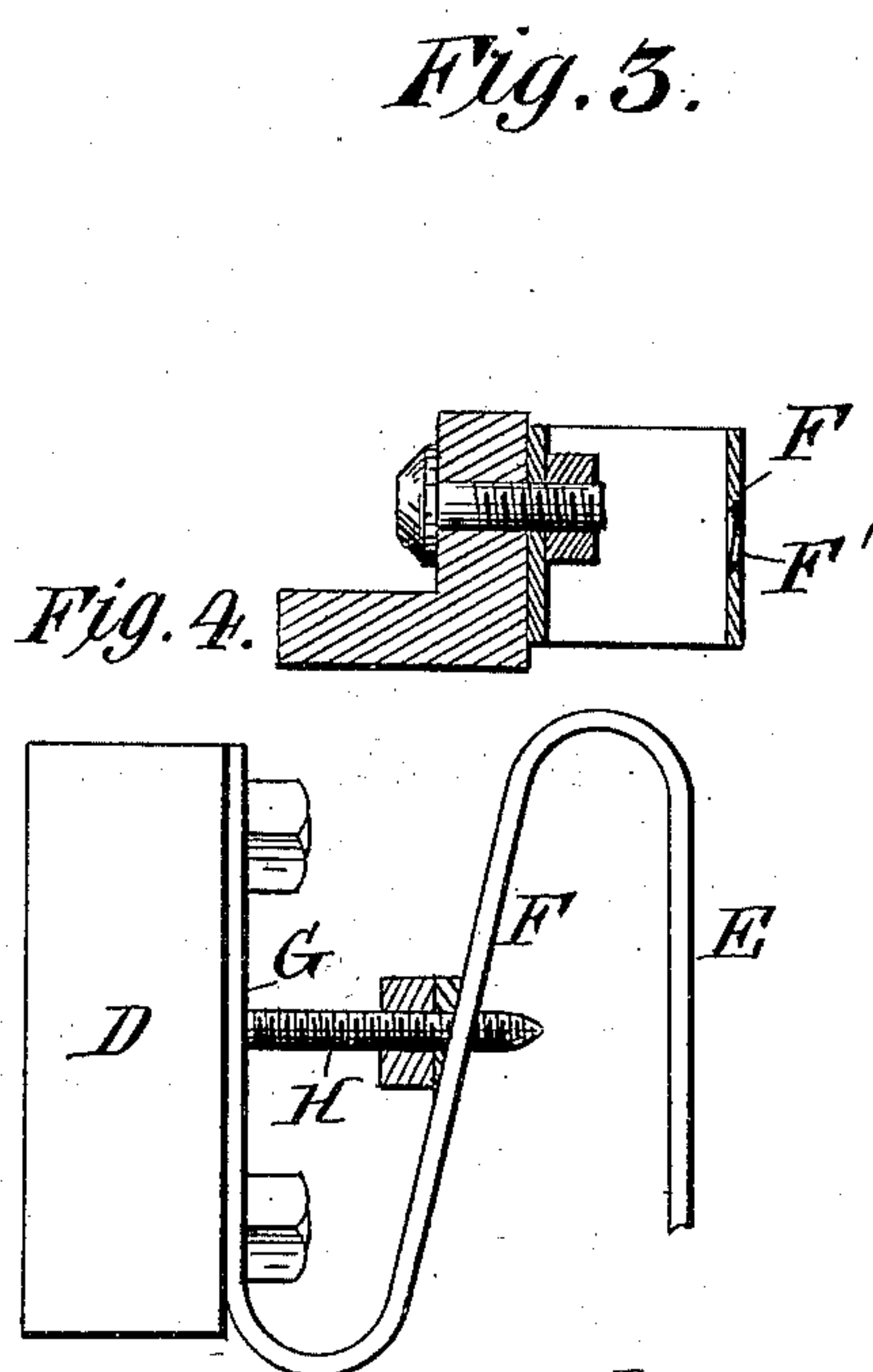
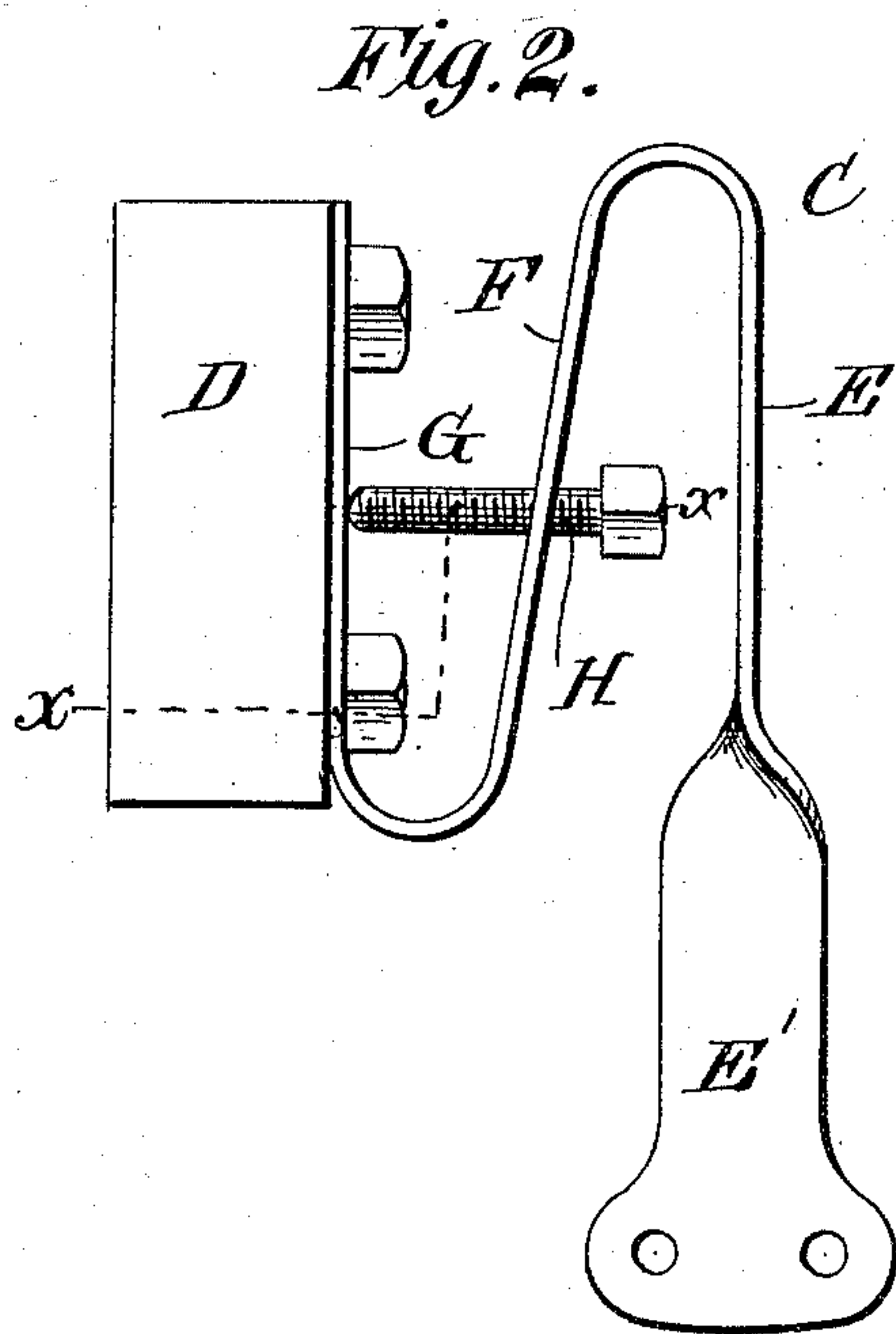
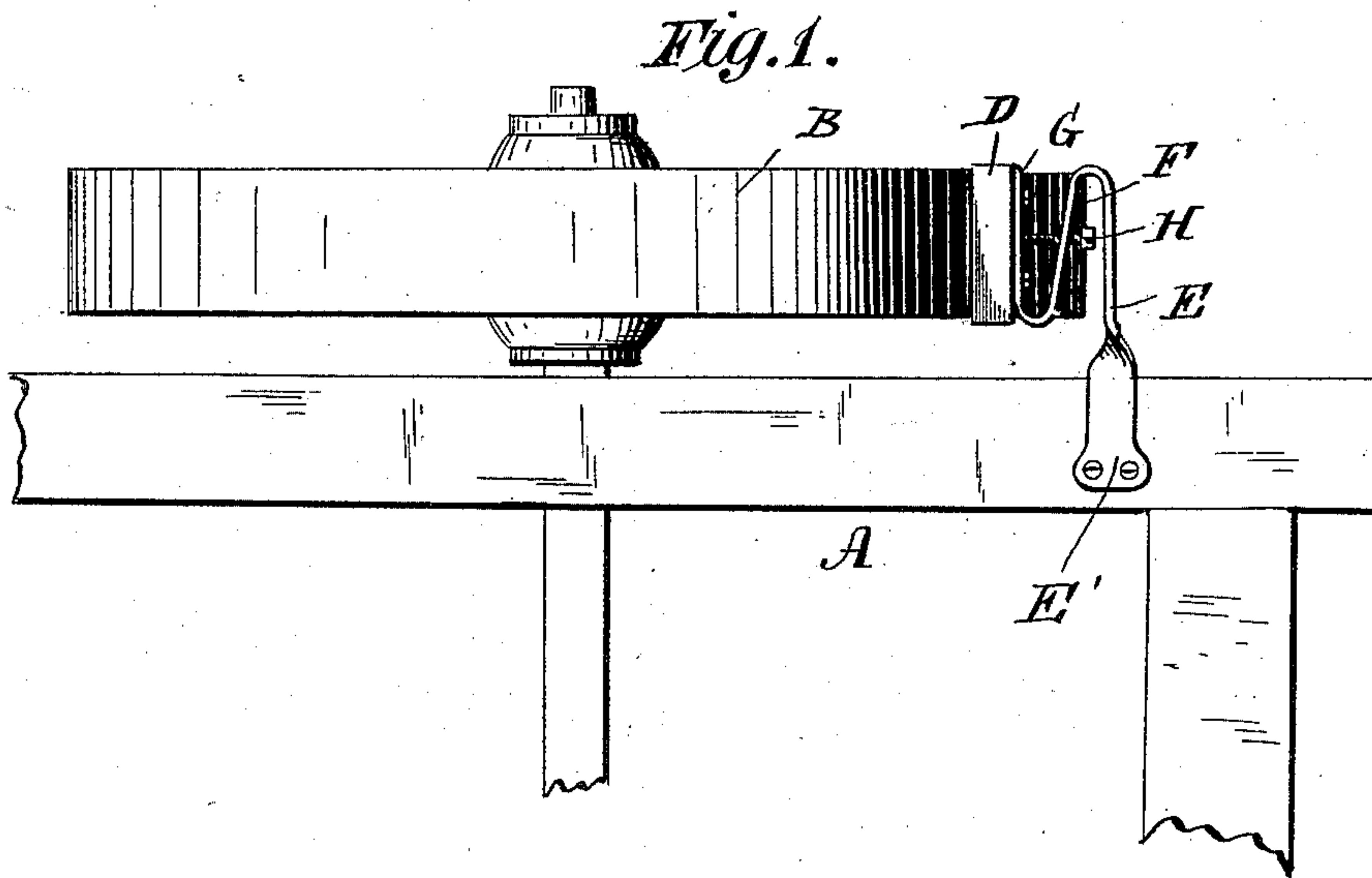
(No Model.)

H. THOMAN.

SCRAPER FOR WHEELS OF WHEAT DRILLS.

No. 330,169.

Patented Nov. 10, 1885.



Witnesses.
Saul R. Turner
O. B. Turpin

Inventor
Henry Thoman
By R. S. & A. T. Lacey
Attys

UNITED STATES PATENT OFFICE.

HENRY THOMAN, OF LEESVILLE CROSS ROADS, OHIO.

SCRAPER FOR WHEELS OF WHEAT-DRILLS.

SPECIFICATION forming part of Letters Patent No. 330,169, dated November 10, 1885.

Application filed May 12, 1885. Serial No. 165,240. (No model.)

To all whom it may concern:

Be it known that I, HENRY THOMAN, a citizen of the United States, residing at Leesville Cross Roads, in the county of Crawford and State of Ohio, have invented certain new and useful Improvements in Scrapers for Wheels of Wheat-Drills; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention has for its object to provide a scraper or cleaner for the drive-wheels of grain-drills and other seeding-machines.

It is well understood that in the use of grain-drills in damp or wet soil they become clogged with soil, and by reason of the accumulation of mud increase in diameter, and by reason of such increase in diameter they fail to operate the machine in such manner as to drill or plant the desired quantity of seed per acre.

My invention aims to provide a scraper that will clean from the wheels the accumulated soil, and so construct such scraper that it may be readily set at all times to properly bear against the wheel.

To the ends described the invention consists in certain novel constructions and combinations of parts, which will be hereinafter described and claimed.

In the drawings, Figure 1 is a plan view of a section of a drill-carriage provided with my improvements. Fig. 2 is a detail plan view, enlarged, of the scraper. Fig. 3 is a sectional view on the line *x x*, Fig. 2, and Fig. 4 shows a modification.

Referring to the drawings, A represents a section of a drill-frame, and B represents one of the drive-wheels of the drill. The scraper or cleaner is composed of the support C and the shoe or block D. The support C is, by preference, formed from a bar of spring metal bent to form a spring-arm, E, adapted at one end, E', to be applied to the frame-beam in the manner shown in Fig. 1. From the outer end of the arm E, I bend the bearing-

bar F, which extends inwardly a distance about equal the length of the arm E, and has the shoe-supporting plate bent and extended outward from its inner end, as shown. This bar G is normally arranged about parallel with the spring-arm E, and to it I bolt the shoe D, or otherwise secure such shoe in any suitable manner desired. I prefer to use such shoe, because when worn out it can be readily replaced by another; but it will be understood that instead of such shoe the bar G might be made to bear against the wheel and operate to clean the same.

The construction as described will give good results, as by it I get the joint tension of two arms, F and E; but I find it desirable and important in the use of the invention to employ a set-bolt, H, and I prefer to arrange such set-bolt as shown in Fig. 2. This set-bolt H is turned through a threaded opening, F', in the bar F, and operates to take up any loss of tension by bearing against the rear side of the shoe-plate G.

It will be seen that the screw H may be tightened against the plate G, as in the use of the device the tension of spring E becomes lessened, and so keeps the shoe at all times in proper contact with the wheel. I find this of importance, because it avoids the necessity for resetting the scraper on the drill-frame, and provides efficient means for holding the shoe accurately, whether the spring E be strong or weakened by use.

While I prefer to turn the set-screw through a threaded opening in the bar F, as shown in Figs. 1 and 2, it will be understood that, when desired, such set-screw might be fixed to the plate G, projected through an opening in the arm F, and be provided between said parts F and G with a nut arranged to bear against the bar F and operate to adjust the parts F and G apart, as may be desired, though I prefer the construction before described, because of its simplicity and the ease and accuracy by which it may be adjusted.

It will be understood that my scraper, constructed as before described, can be manufactured separately and applied by the users to any desired form of drill or seeding-machine.

Having thus described my invention, what I

claim, and desire to secure by Letters Patent, is—

1. The combination, with the framing and the wheel, of the scraper, a support for such scraper, having a spring-arm and a bearing-bar intermediate between the scraper and the spring-arm, and an adjusting-screw operating between the scraper and the bearing-bar, substantially as set forth.

2. As an article of manufacture, a scraper consisting of a metal bar bent to form the spring-arm, the scraper-bar, and an intermediate bearing-bar, substantially as set forth.

3. The combination, in a wheel-scraper, of the spring-arm E, the shoe-plate G, and intermediate bearing-bars, F, and a set-screw, H, turned through a threaded opening in the bar F and bearing against the bar G, substantially as set forth.

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

HENRY THOMAN.

Witnesses:

DAN BABETTE,
W. STAHL.