

(No Model.)

D. MICHAELS.

PITMAN ROD.

No. 310,707.

Patented Jan. 13, 1885.

Fig-1-

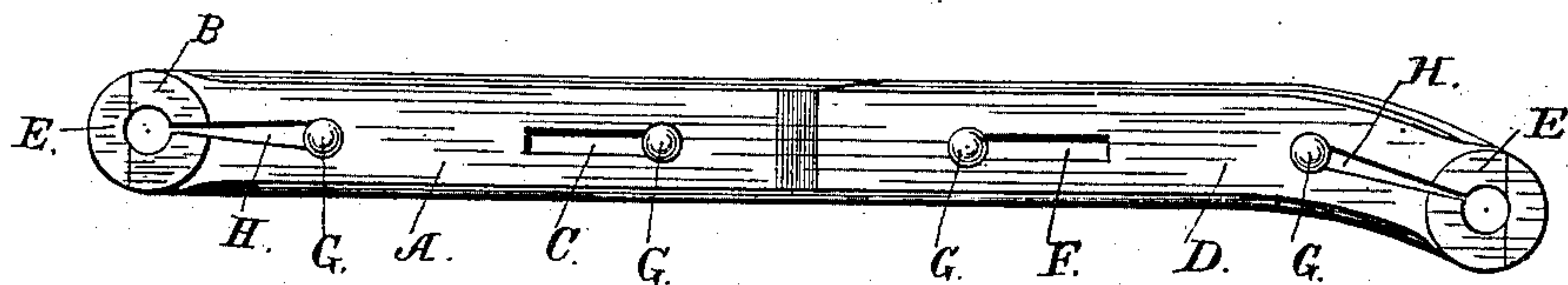


Fig-2-

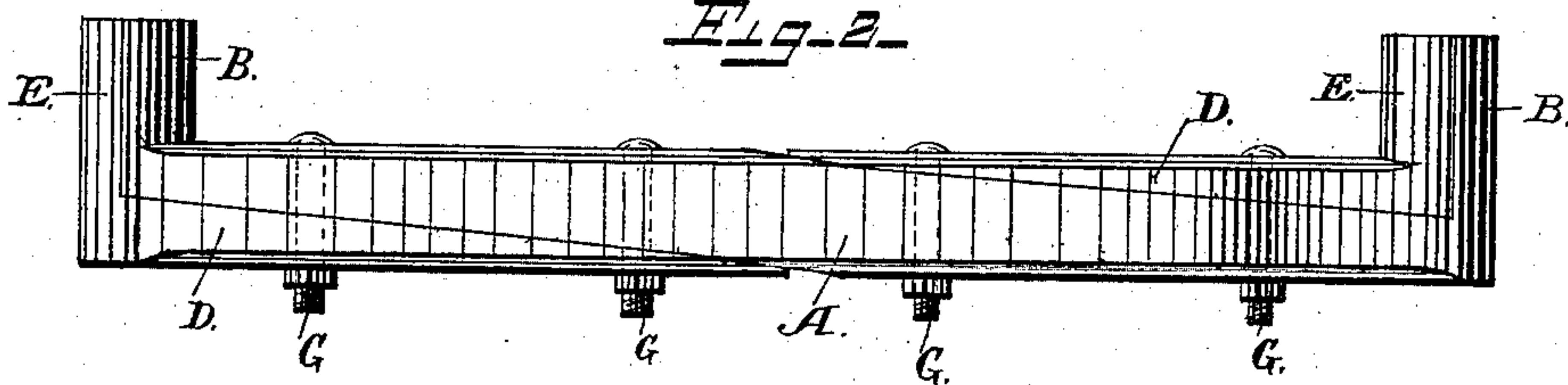


Fig-4-

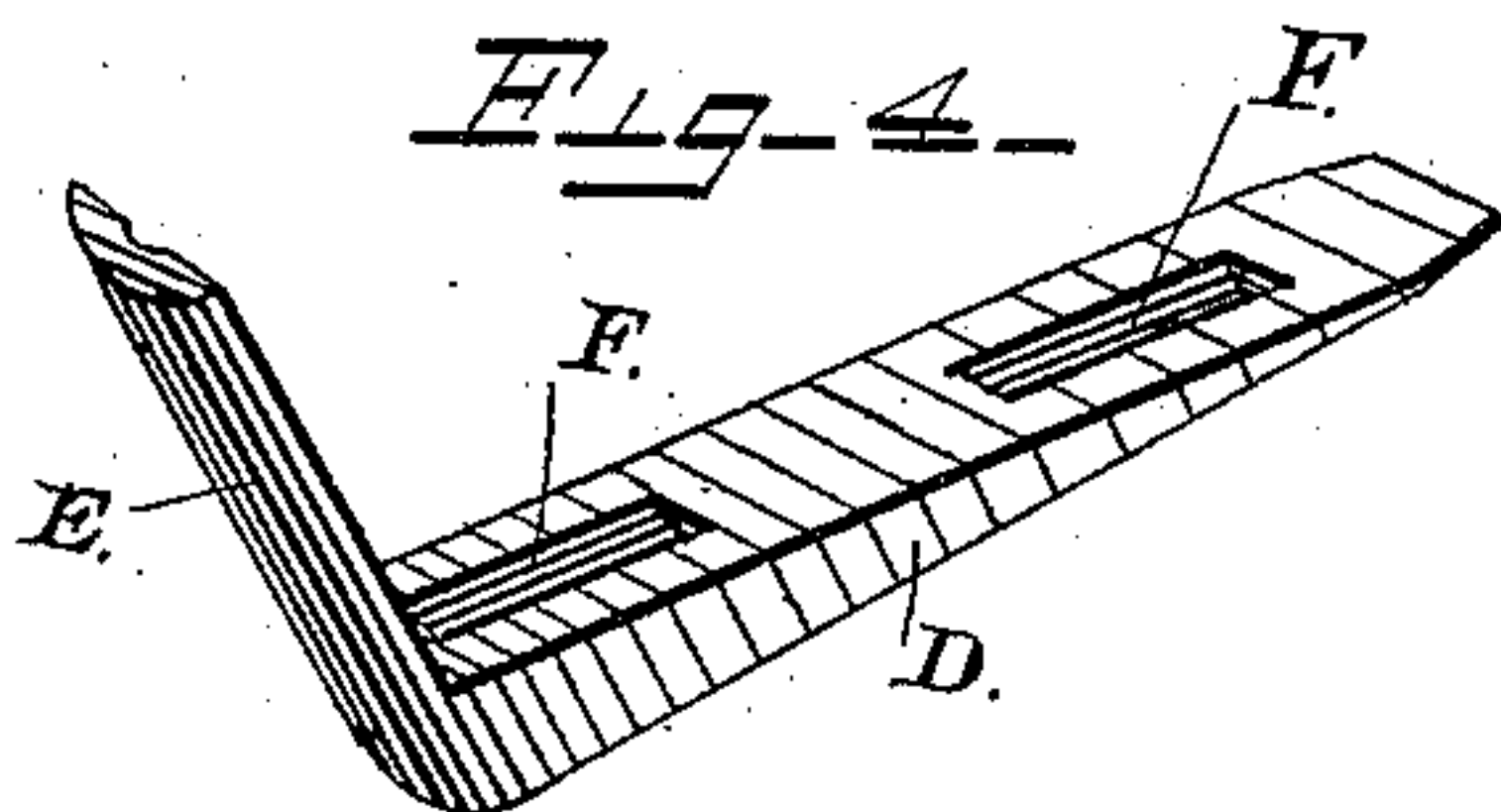


Fig-3-H-

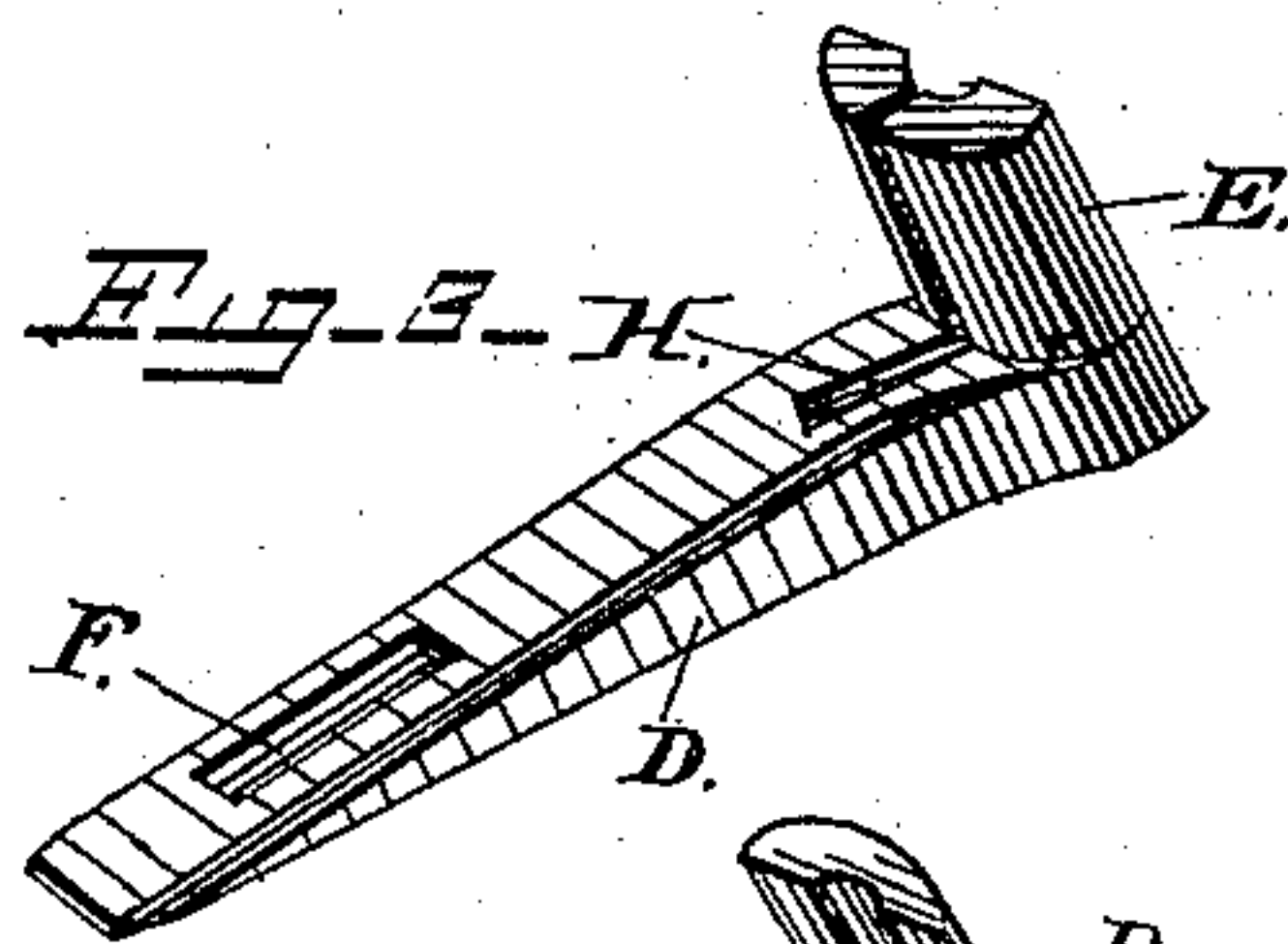
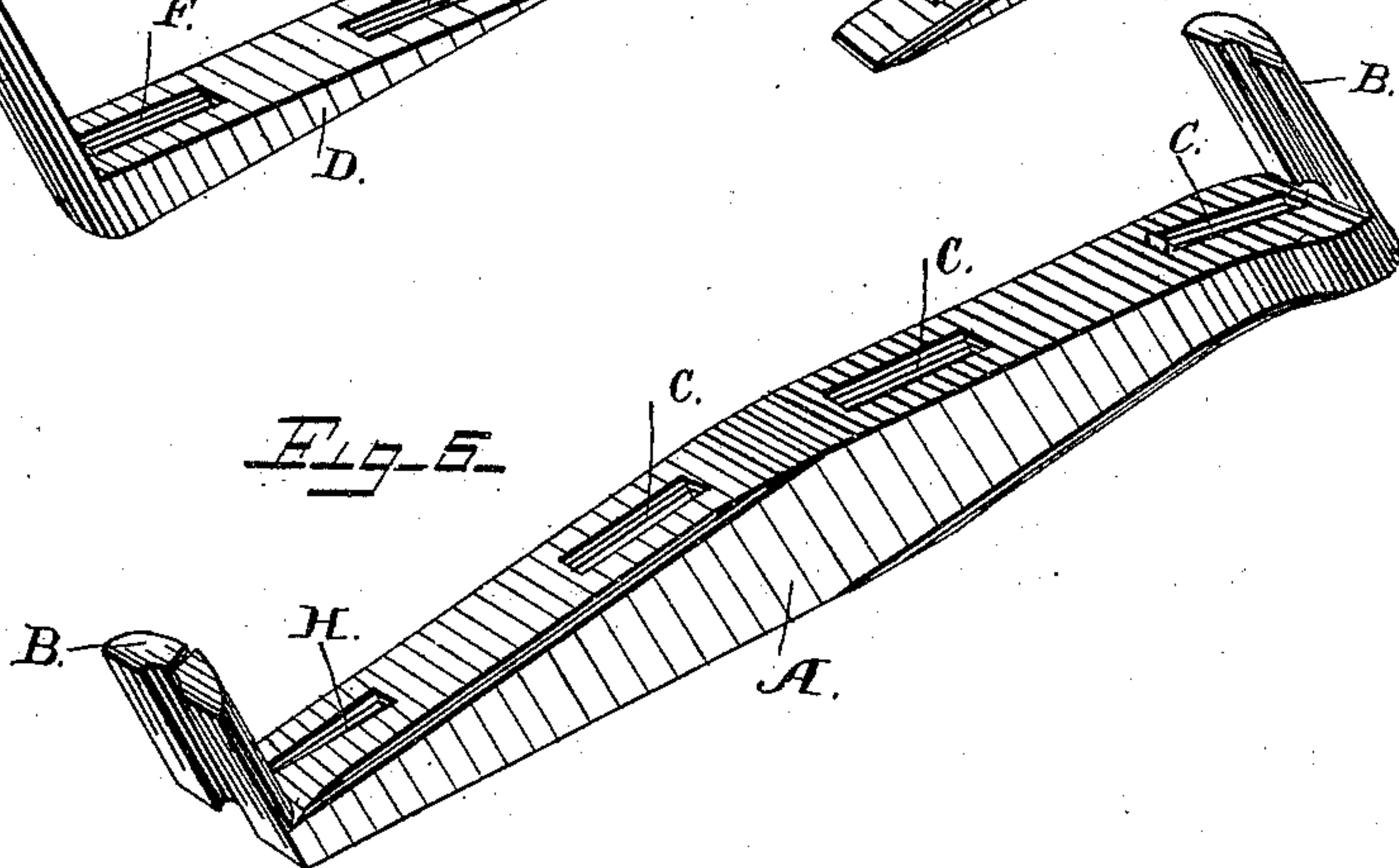


Fig-5-



Witnesses.

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UNITED STATES PATENT OFFICE.

DENNIS MICHAELS, OF HOPEDALE, OHIO.

PITMAN-ROD.

SPECIFICATION forming part of Letters Patent No. 310,707, dated January 13, 1885.

Application filed November 20, 1884. (No model.)

To all whom it may concern:

Be it known that I, DENNIS MICHAELS, a citizen of the United States, residing at Hope-
dale, in the county of Harrison and State of
5 Ohio, have invented certain new and useful
Improvements in Pitman-Rods; and I do de-
clare the following to be a full, clear, and ex-
act description of the invention, such as will
enable others skilled in the art to which it ap-
10 pertains 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 specifica-
tion.

15 This invention relates to pitmen intended,
especially, for use on harvesting-machines; and
its main object is to provide convenient and
easily-operated means for adjusting the wrist
pin or pins to take up the wear in the rings
20 or bearings of the devices which the pitman is
used to connect.

The invention consists in certain novel con-
structions, which will first be described, and
then specifically pointed out in the claims.

25 In the drawings, Figure 1 is a plan and Fig.
2 a side view of my pitman. Figs. 3 and 4
are detail views of the movable sections; Fig.
5, a detail view of the main section.

The main section A is provided at one or
30 both ends with segments B of wrist-pins. These
segments are approximately semicircular in
cross-section. Slots C C are formed through
the main bar and elongated in the direction of
length thereof. The movable sections D are
35 lapped alongside the main section and pro-
vided with segmental pins E, which, with
segments B, form complete wrist-pins. These
movable sections are provided with slots F,
elongated, like slots C, in the direction of length
40 of the section.

In operation slots F and C register, and the
bolts G, for clamping the sections together, are
passed through such slots. By loosening
bolts G the sections may be moved longitudi-
45 nally along each other, so as to set the seg-
ments to or from each other, in order to reduce
or increase the cross-sectional area of the
wrist-pin, and by tightening the screws G the
sections may be held at any desired point of
50 adjustment.

It is manifest that the screw-openings need
be elongated in only one of the sections; but

I prefer to so form them in both, as thereby
a greater degree of adjustment is permitted.
It is also evident that instead of the clamping- 55
screws clips might be passed around the sec-
tions, or other suitable expedients employed
for securing the two sections together.

The construction before described provides
for the adjustment of the segments to and 60
from each other. I have also found it desir-
able to divide one or both of the segments lon-
gitudinally and adjust the divisions thereof
apart, so as to increase the area of the wrist-
pin laterally. To secure this lateral spread- 65
ing a wedge might be driven between the di-
vided portions of the segment.

In practice it is preferred to form the end
of section carrying the divided segment adja-
cent to said segment with a slot, H, commu- 70
nicating with the slit or division of such seg-
ment, and to adjust its divisions by devices
operating in such slot. For such purpose a
shaft or screw suitably journaled could be
turned through slot H, and provided with cams 75
or wipers arranged to bear against the side
walls of slot H, and so spread the divisions of
the segment apart. I prefer, however, to em-
ploy the construction shown, which consists
in forming the slot H tapering, with its apex 80
toward the segment, and to project a bolt or
pin from the other section through the taper-
ing slot, so that as the sections are moved lon-
gitudinally along each other the said pin will
impinge on the inclined walls of the slot and 85
adjust the divisions of the segment apart.

It will be noticed that the divided segment
may be that on the main section or on what,
for convenience of reference, I have denomi-
nated the "movable" section. 90

By my invention the pitman pin or pins
may be quickly adjusted to accurately fit the
rings in which they are held, and so take up
all wear, preventing the rattling and conse-
quent jarring so disagreeable to the operator 95
and injurious to the machine, as is well known.

Having thus described my invention, what
I claim, and desire to secure by Letters Pat-
ent, is—

1. In a pitman, the combination, with the 100
main section provided with a segment of a pin,
of a movable section, also provided with a seg-
ment of a pin and adjustable along the main
section, substantially as set forth.

2. In a pitman, the combination, with a section provided with a segment of a pin, of a second section, also provided with a segment of a pin, which segment is divided longitudinally, and means whereby the divisions of said pin may be spread laterally, substantially as set forth.

3. In a pitman, the combination, with one section provided with a segment of a pin, and a second section, also provided with a segment of a pin, which is divided longitudinally, one

of said sections being provided with a tapered slot, of a bolt or pin projected from the other section through said tapered slot, substantially as set forth.

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

15

DENNIS MICHAELS.

Witnesses:

AMON LEMMON,
JACOB JARVIS.