

(No Model.)

C. SCHMIDT.

SICKLE BAR FOR HARVESTERS.

No. 271,923.

Patented Feb. 6, 1883.

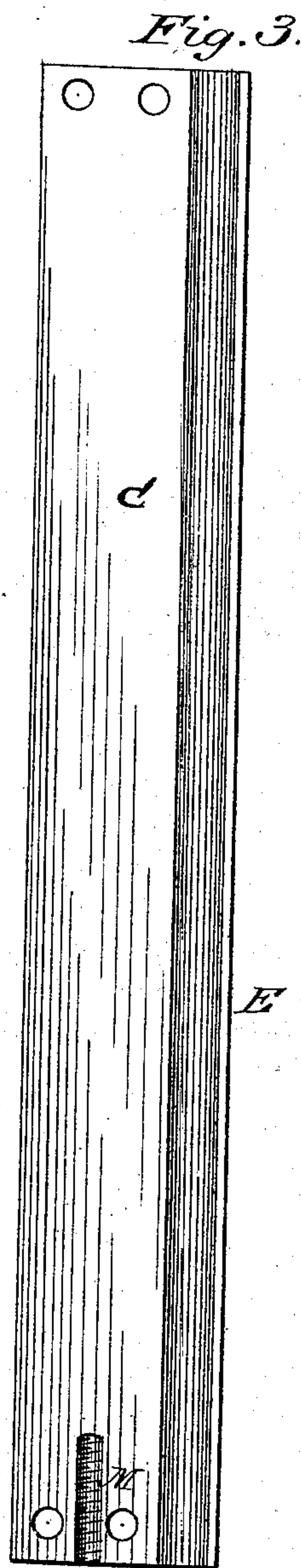
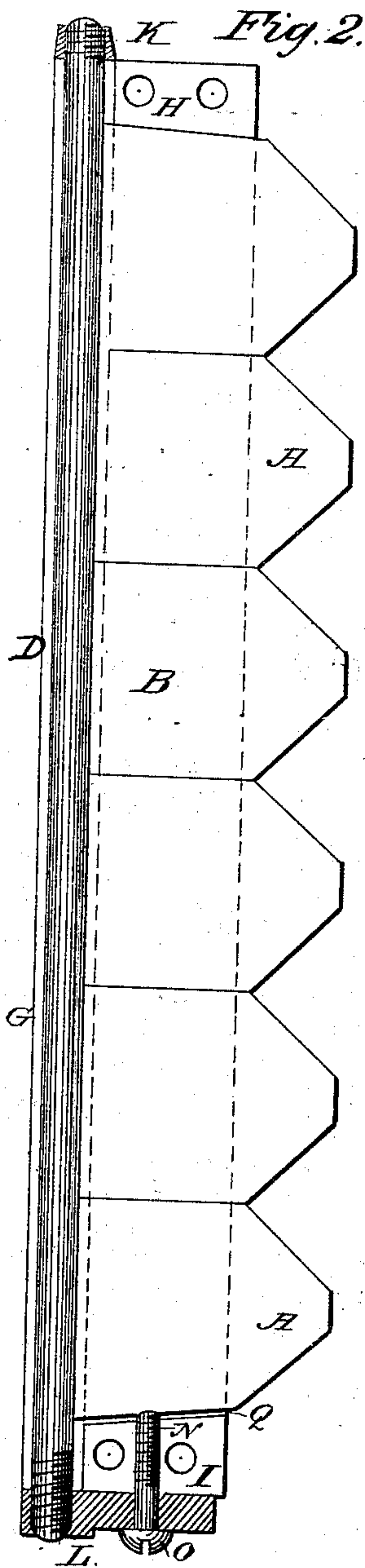
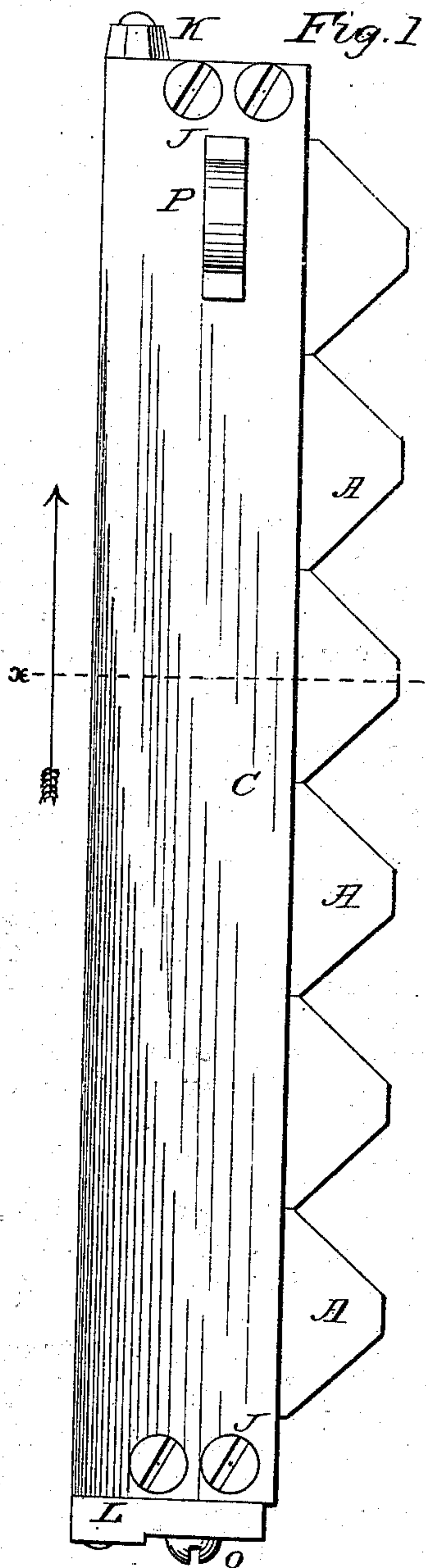
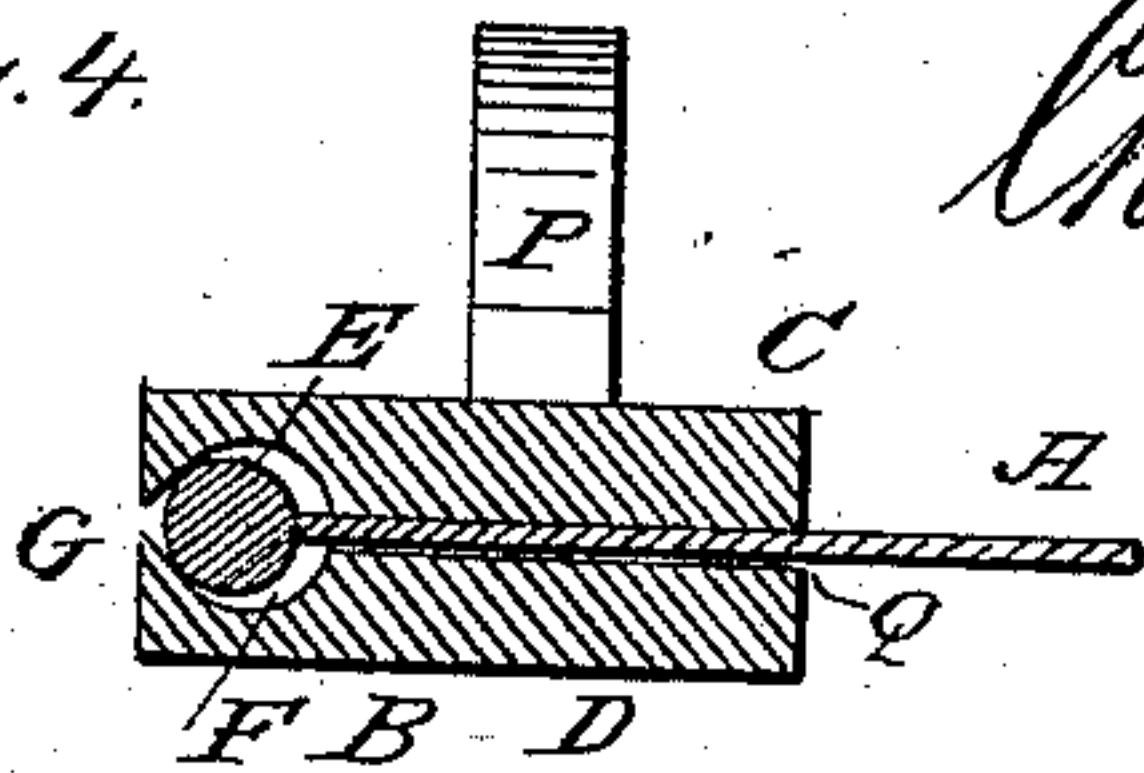


Fig. 4



WITNESSES:

Fred. G. Dieterich
Wm. Lecher

Christian Schmidt
INVENTOR,
Louis Bagger & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHRISTIAN SCHMIDT, OF MIAMISBURG, OHIO, ASSIGNOR OF THREE-FOURTHS
TO FRANZ LIESENHOFF, ADAM SILBERMAN, AND JOHN STOCKER, ALL
OF SAME PLACE.

SICKLE-BAR FOR HARVESTERS.

SPECIFICATION forming part of Letters Patent No. 271,923, dated February 6, 1883.

Application filed November 29, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN SCHMIDT, of
Miamisburg, in the county of Montgomery and
State of Ohio, have invented certain new and
useful Improvements in Sickle-Bars; and I do
hereby declare that the following is a full, clear,
and exact description of the invention, which
will enable others skilled in the art to which
it appertains to make and use the same, refer-
ence being had to the accompanying drawings,
which form a part of this specification, and in
which—

Figure 1 is a plan view of my improved
sickle-bar. Fig. 2 is a similar view with the
top bar removed. Fig. 3 is a plan view of the
inside of the top bar, and Fig. 4 is a cross-sec-
tion of the sickle-bar on line *x x*, Fig. 1, look-
ing in the direction indicated by the arrow.

Similar letters of reference indicate corre-
sponding parts in the figures.

My invention has relation to sickle-bars for
reaping and mowing machines; and it consists
in the improved construction and combination
of parts of the same, as hereinafter more fully
described and claimed.

In the accompanying drawings, the letter A
indicates the cutter-blades, the cutting part of
which may be of any desired construction and
shape, but which have a square base or plate,
B, which is inserted between and held fast by
two flat-bars, C and D, which form the sickle-
bar proper. The upper bar, C, has a longi-
tudinal groove, E, along its rear part, which
corresponds to a similar groove, F, in the
lower bar, and in the recess thereby produced
rests a bar, G, against which the bases of the
teeth bear. The lower bar, D, has two offsets
or shoulders, H and I, on its inner surface—
one at each end—forming a recess, Q, in which
the blades are placed, both of which are cut
slightly obliquely off, wider in front than in
the rear, and the two blades at the ends are
cut off obliquely to correspond, which serves
to hold them in place. The offsets are of the
same thickness as the blades, so that the up-
per bar, which is secured to the lower by screws
J in both ends of the bar, will bear tightly down
upon the blades. The rod G is provided with
a nut, K, at the inner end, and is screwed into

a cross-piece, L, at the outer end, whereby the
rod is held rigidly in place and serves to hold
the cutter-blades in place, preventing them
from sliding out at the rear of the bar.
Through a hole in the cross-piece L, and fitting
into two screw-threaded recesses, M and N, in
the ends of the upper and lower bar, passes a
screw, O, the end of which bears against the
end blade and serves to hold the blades fast.

P is the eye-piece for the pitman coupling,
which may be of any desired construction.

When it is desired to remove a blade and
insert another the screw O is loosened, the
cross-piece L is unscrewed from the rod G,
which is withdrawn by the end provided with
nut K, when the blade may be pushed out at
the rear of the bar and another one inserted,
or all the blades may be taken out to be ground
and inserted again when the rod is replaced
and tightened and the screw O tightened until
the blades sit firmly in the bar.

Having thus described my invention, I claim
and desire to secure by Letters Patent of the
United States—

1. In a sickle-bar, the combination of the
bars C and D, grooved at E and F, and form-
ing recess Q, rod G, adapted to hold the blades
in position, cutter-blades A, and fastening-
screw O, substantially as shown and set forth.

2. In a sickle-bar, the blades A, having
square bases B, the upper bar, C, having longi-
tudinal groove E and screw-threaded recess M
in one end, the lower bar, D, having offsets H
and I, oblique on the inside, forming recess Q,
longitudinal groove F, and screw-threaded re-
cess N, rod G, having nut K in one end and
screwed into the cross-piece L at the other end,
cross-piece L, having screw-holes for the recep-
tion of one end of rod G and for screw O, and
screw O, all constructed and combined sub-
stantially as shown and set forth.

In testimony that I claim the foregoing as my
own I have hereunto affixed my signature in
presence of two witnesses.

CHRISTIAN SCHMIDT.

Witnesses:

LEWIS H. ZEHRING,
LEWIS SMALL.