

(No Model.)

S. BUCKINGHAM.
SAW JOINTER AND GAGE.

No. 548,948.

Patented Oct. 29, 1895.

Fig. 1.

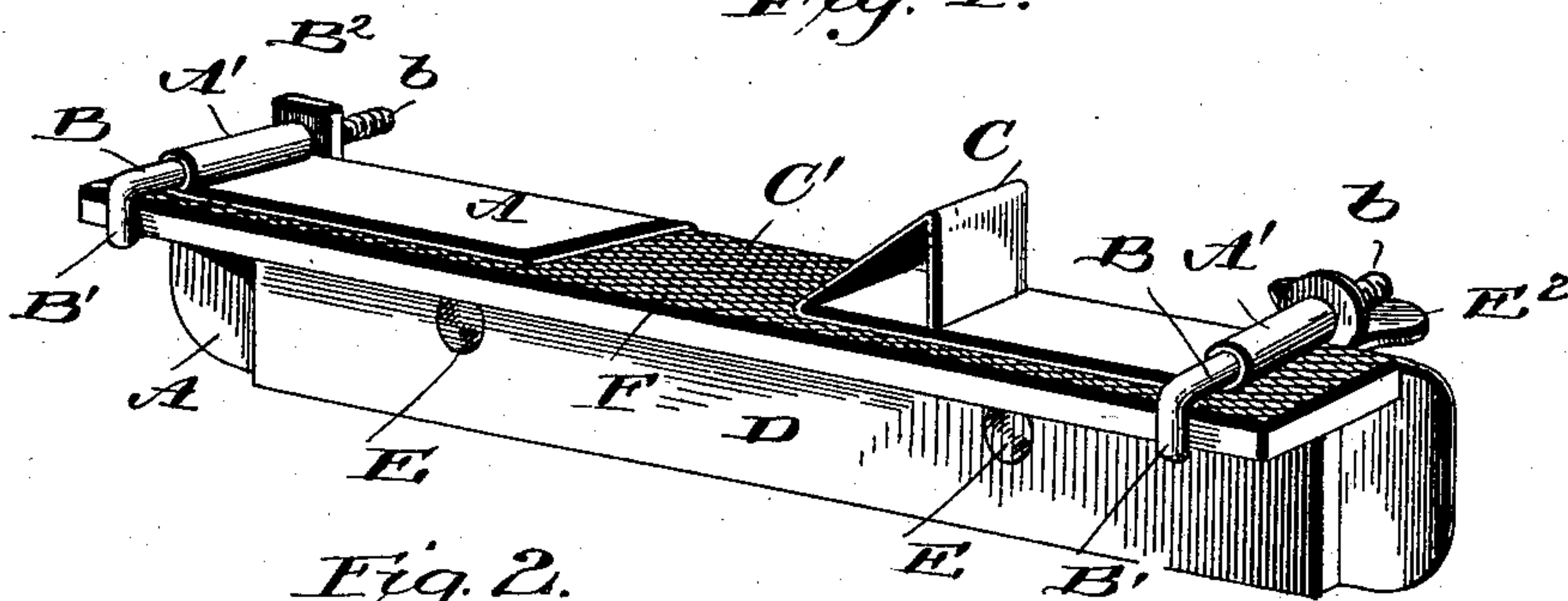


Fig. 2.

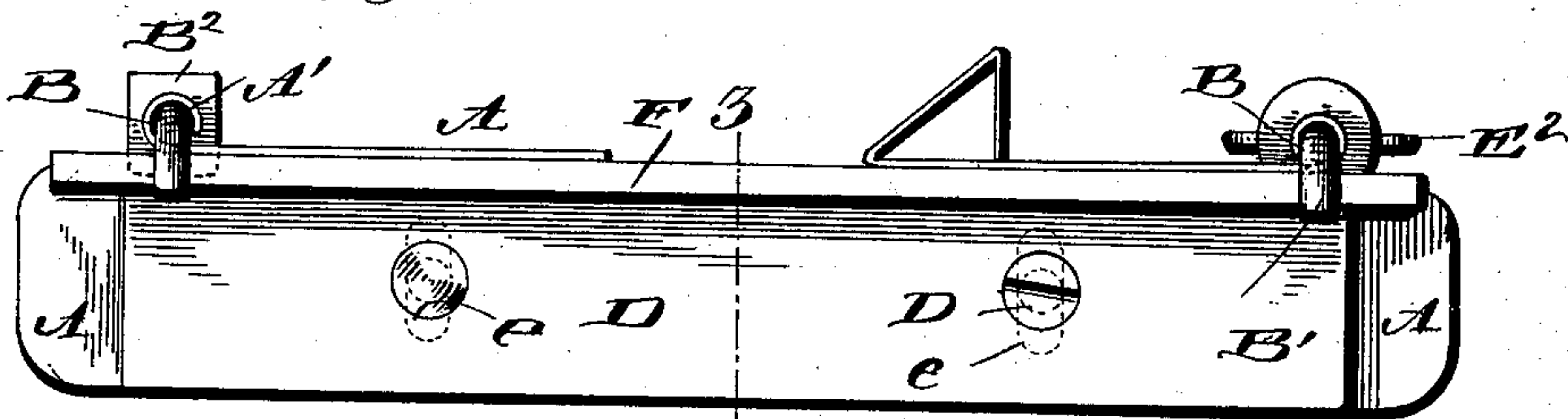


Fig. 6. L'

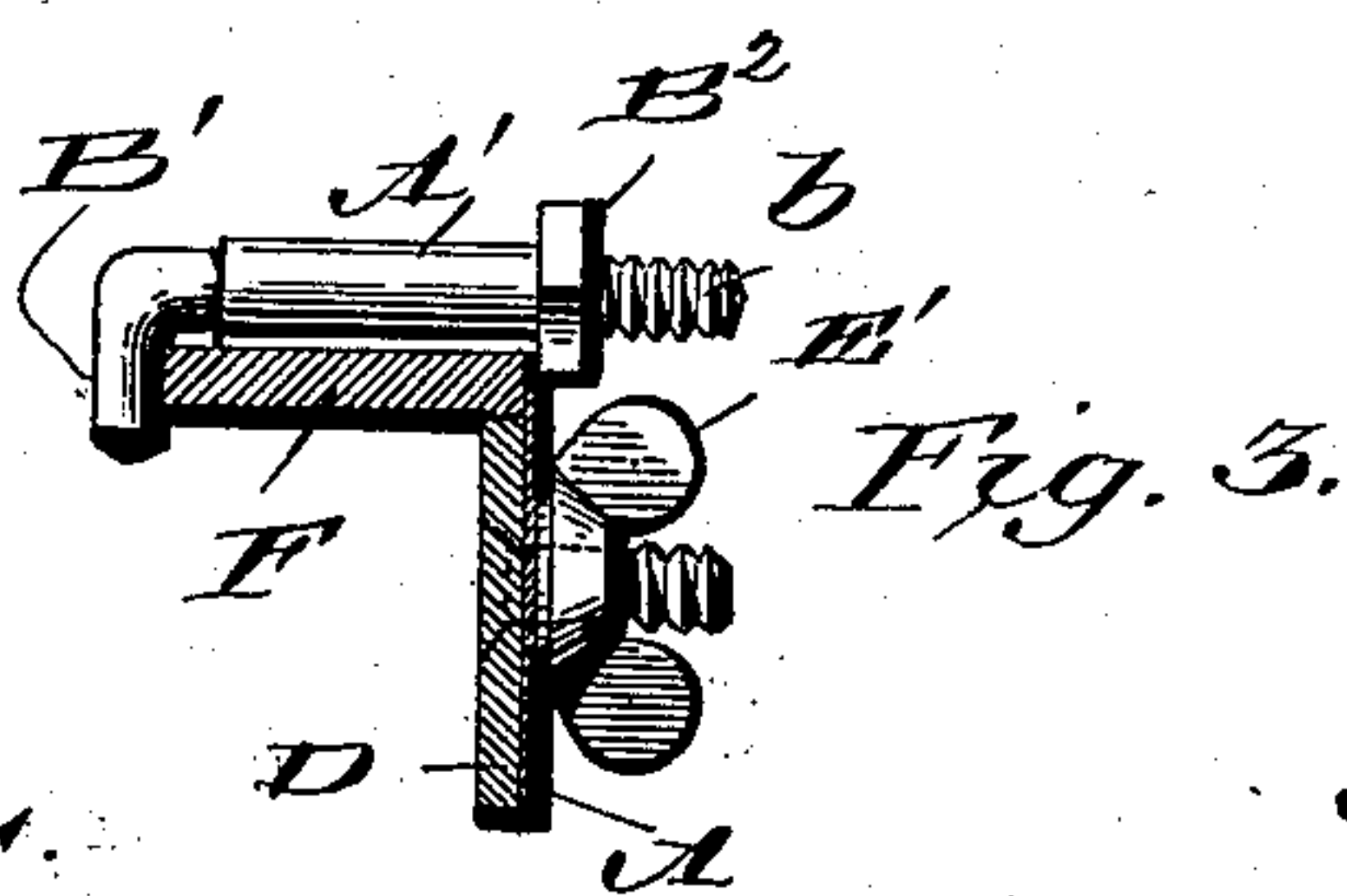
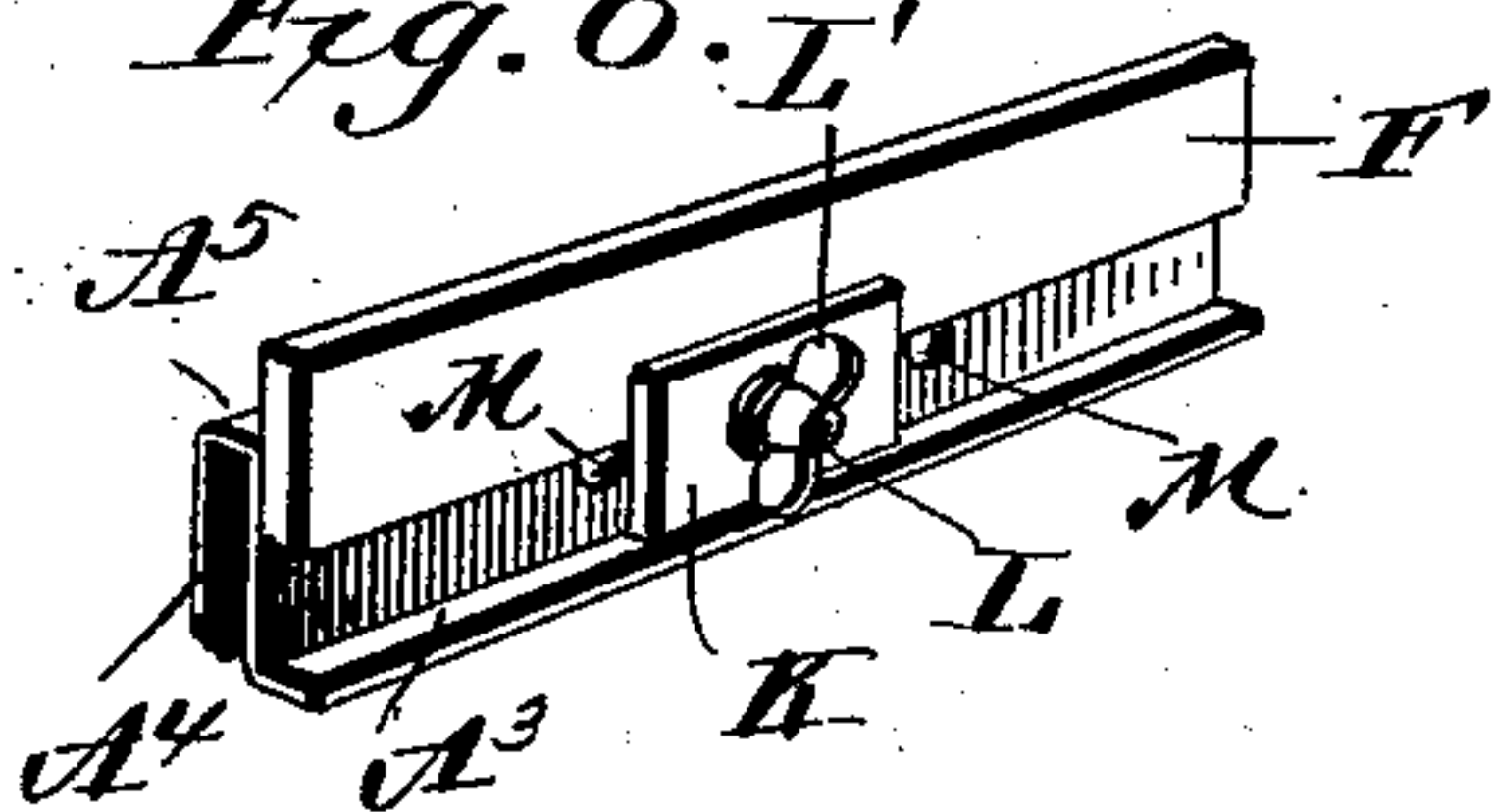


Fig. 3.

Fig. 4.

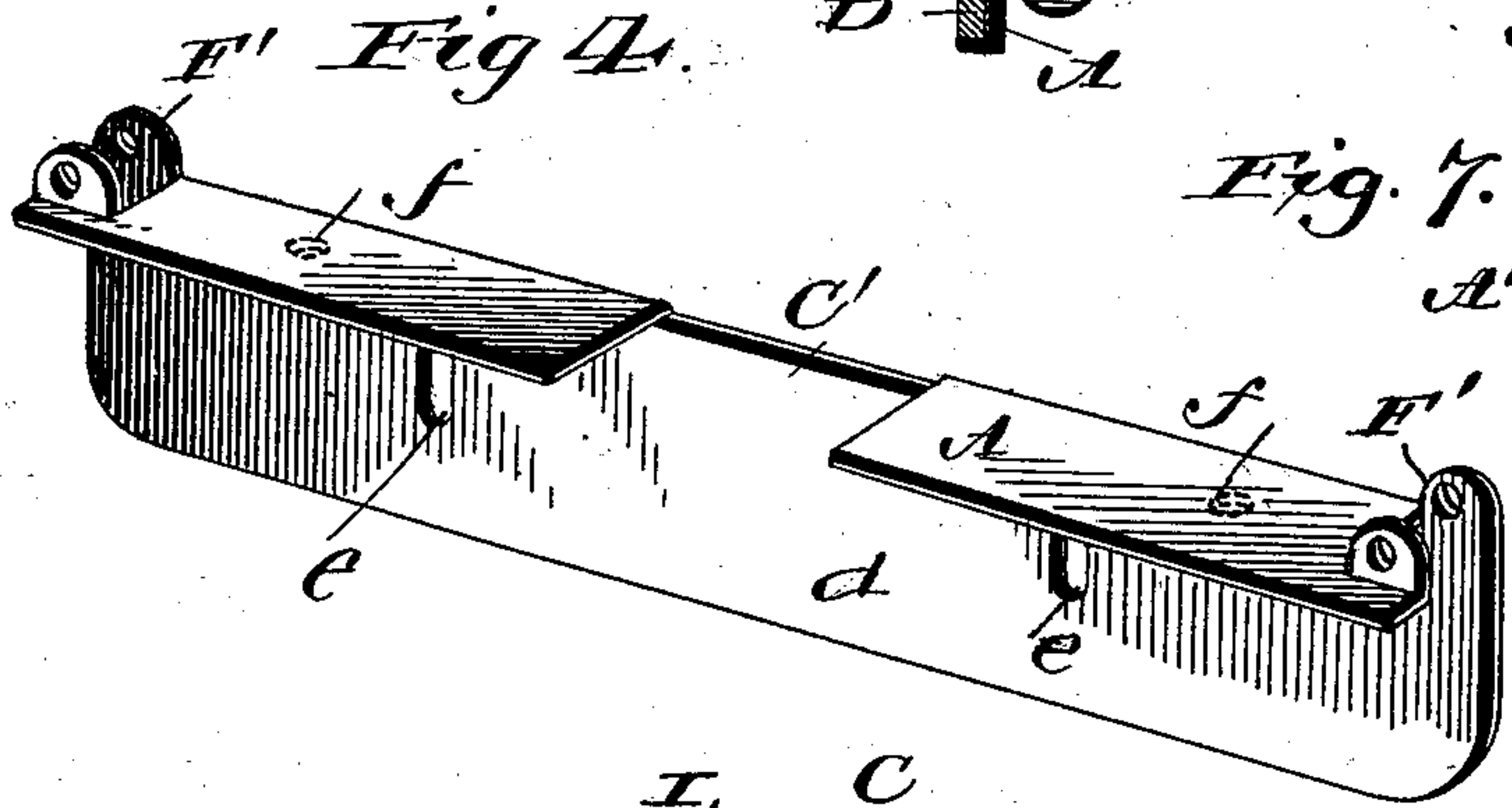


Fig. 7.

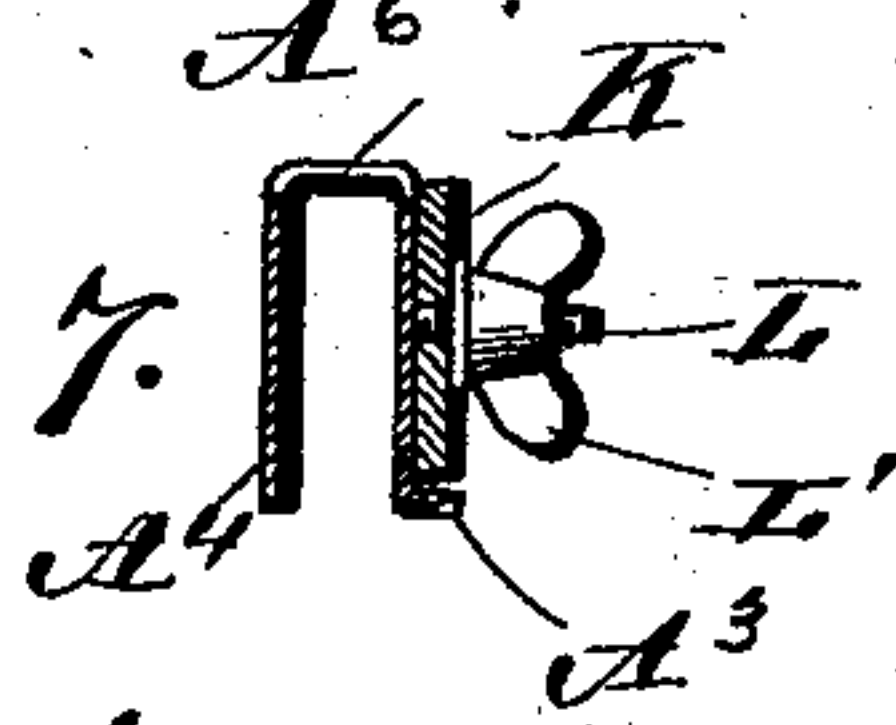
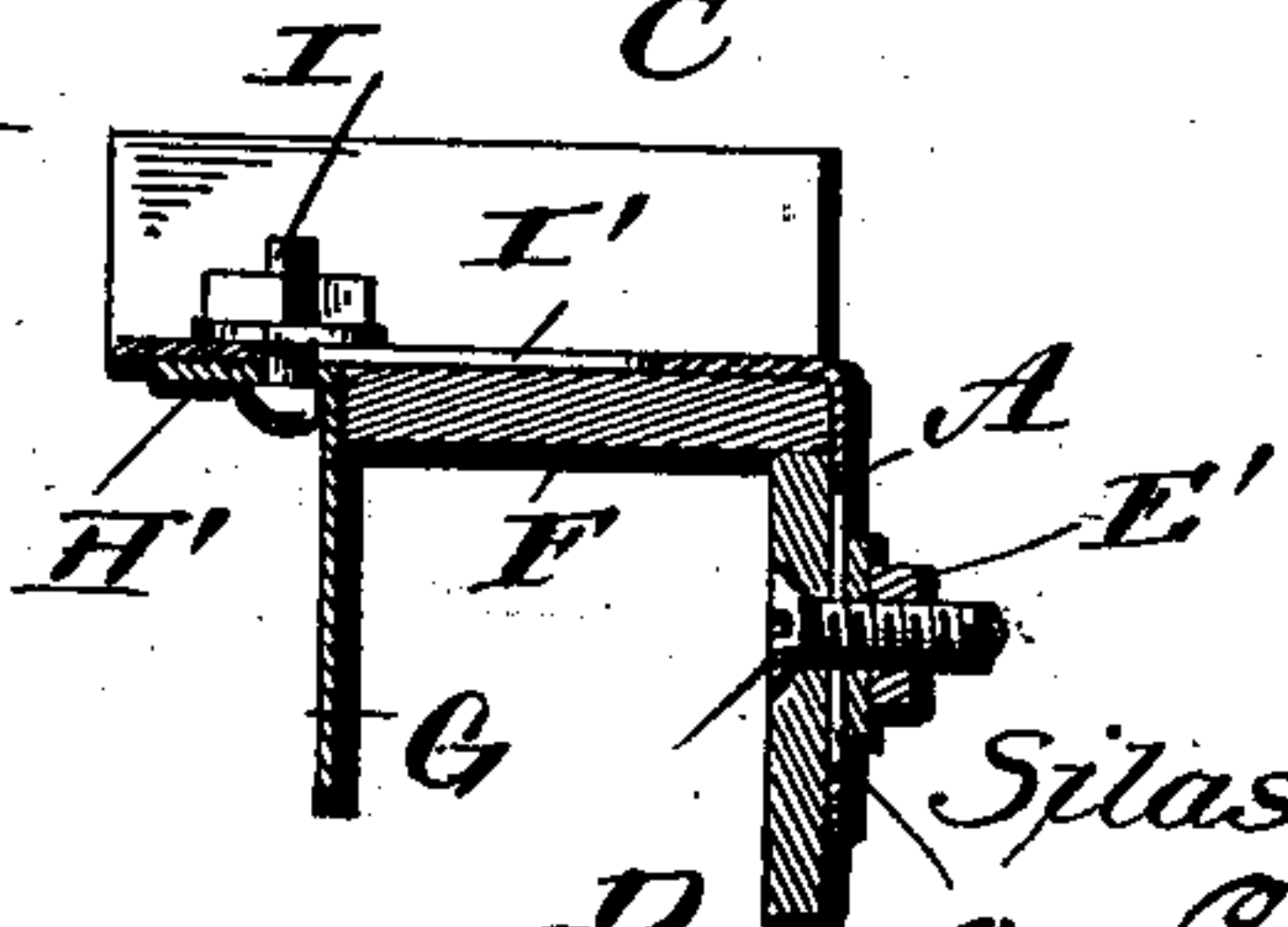


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

SILAS BUCKINGHAM, OF MARSEILLES, OHIO.

SAW JOINTER AND GAGE.

SPECIFICATION forming part of Letters Patent No. 548,948, dated October 29, 1895.

Application filed March 22, 1895. Serial No. 542,842. (No model.)

To all whom it may concern:

Be it known that I, SILAS BUCKINGHAM, a citizen of the United States, residing at Mar-
seilles, in the county of Wyandot, State of
5 Ohio, have invented certain new and useful
Improvements in Saw Jointers and Gages, of
which the following is a specification, refer-
ence being had therein to the accompanying
drawings.

10 This invention relates to certain new and
useful improvements in saw jointers and
gages; and it has for its object, among others,
to provide a simple and cheap construction by
which better results may be attained in a
15 more satisfactory manner.

It has for a further object to provide a sim-
ple and light jointer and gage that may be
made of any suitable material or struck up
of sheet metal, and to provide it with a thumb
20 or finger rest formed from a portion of the
metal which is struck out of the body portion
and bent into the proper shape or form.

It has also for its object to provide for the
ready and easy application of the file and for
25 its adjustment whenever necessary.

In one of its forms the invention is appli-
cable to various uses, as will hereinafter be
made apparent.

30 Other objects and advantages of the inven-
tion will hereinafter appear, and the novel
features thereof will be specifically defined by
the appended claims.

The invention is clearly illustrated in the
accompanying drawings, which, with the let-
35 ters of reference marked thereon, form a part
of this specification, and in which—

Figure 1 is a perspective view of my im-
proved saw jointer and gage. Fig. 2 is a side
elevation of the same. Fig. 3 is a vertical
40 cross-section thereof on the line 3 3 of Fig. 2.
Fig. 4 is a perspective view of the body por-
tion of a different form with the other parts
detached. Fig. 5 is a vertical cross-section
through still another form of the invention.
45 Fig. 6 is a perspective view, on a smaller scale,
of still another form. Fig. 7 is a vertical
cross-section through Fig. 6 with the file re-
moved and adapted for filing rakers.

Like letters of reference indicate like parts
50 throughout the several views.

Referring now to the details of the draw-
ings by letter, A designates the body portion

of the device, which I construct of any suit-
able material, preferably of sheet metal
stamped or struck up into the desired form 55
with one portion at right angles to the other,
as seen in Figs. 1 and 2 and still better in Fig.
4. The ends of the upper portion in the form
shown in Figs. 1, 2, and 3 are rolled over to
form the eyes A' for the reception of the screw 60
rods or bolts B, one end of each of which is
bent or turned at a right angle to form the
hook B', as seen in Figs. 1, 2, and 3, and the
other ends of which are screw-threaded, as
seen at b in Figs. 1 and 3. The upper por- 65
tion of the body is separated for a portion of
its length from the right-angled portion, and
this separated portion is bent up to form the
thumb or finger piece C, which is provided
with the vertical wall and the inclined wall 70
to give strength thereto, and the opening C'
thus formed performs an important function,
as will hereinafter be made apparent.

D is a wear-plate held against the inner
face of the vertical portion of the body in any 75
suitable manner, as by the screws E, as shown
in Fig. 1, or by bolts and thumb-nuts E', as
seen in Fig. 3. The openings through which
the bolts pass may be elongated, as indicated
by dotted lines at e in Figs. 2 and 4, to per- 80
mit of the necessary adjustment of the wear-
plate when desired.

F is the file. It is held between the top
edge of the wear-plate and the horizontal part
of the body portion, as seen best in Fig. 3, and 85
is retained in position by the hooked ends of
the bolts B engaging over the outer edge
thereof, as shown, and the bolts are strained
by the nuts B², which may, if desired, be in
the form of thumb-nuts, as seen at the right 90
of Figs. 1 and 2.

Instead of turning up the ends of the hori-
zontal part of the body portion to form the
eyes A' the same may be constructed to form 95
the ears F', as seen in Fig. 4, for the recep-
tion of the rods or bolts or other means em-
ployed for holding the edge of the file and se-
curing it in place.

The body portion may be sometimes pro-
vided in its horizontal portion with holes, as 100
indicated by dotted lines at f in Fig. 4, through
may be placed pins (not shown) to keep the
device from falling off the saw when filing
rakers.

The operation will be readily understood from the foregoing description, when taken in connection with the annexed drawings.

The file may be reversed when necessary and the parts adjusted as occasion may require.

The form shown in Fig. 5 is the same in all its essential features as those already described. It has in addition thereto, however, the plate G, which has a horizontal flange H', by which it is held in position by the bolts and nuts I, working in the elongated slots I' of the horizontal part of the body portion, and the depending portion extends parallel with the vertical portion of the body portion, the file being clamped between the two parallel vertical portions, as shown in said Fig. 5. Any required width of file may be employed and firmly held. When the device is employed upon the rakers of the saw, the depending portion G serves to keep the device from falling from the saw, which is confined between the two vertical portions, the file of course being removed, so that the teeth of the saw will project through the opening C' in the horizontal part of the body portion, as will be readily understood.

In the form shown in Figs. 6 and 7 the body portion consists of the single piece with a horizontal flange A³, the depending portion A⁴, parallel with the main portion, and the horizontal portion A⁵, connecting the two vertical portions, this horizontal portion being provided with an opening A⁶, as seen in Fig. 7. An adjustable throat-plate K is provided, which is held in place on a screw-stud L, projecting from the main portion and provided with a thumb-nut L', as shown. Projecting from the outer face of the vertical main part of the body portion are the teats or projections M, as seen in Fig. 6, and which are spaced a distance apart slightly greater than the length of the throat-plate, as seen best in Fig. 6. As seen in Fig. 6, the device is set for jointing the saw, the file resting upon the projections M and held by the throat-plate and its holding-nut. In Fig. 7 the file has been removed and the throat-plate screwed up flat

against the vertical portion of the body and the device is as used for filing the rakers of the saw, the saw being placed between the parallel vertical portions of the device and the rakers filed by the file as they project through the opening A⁶ in the horizontal connecting portion of the body part.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What is claimed as new is—

1. A saw jointer and gage comprising a body portion having an opening in its upper portion and a thumb piece formed by the metal removed to provide said opening, an adjustable plate, means for detachably holding a file parallel with the upper portion and between the same and the upper edge of said plate, and means for preventing displacement of the jointer and gage from a saw, substantially as described.

2. The combination with a sheet metal body having an opening in its upper part, of a thumb piece formed by the metal removed to provide said opening, hooked rods passed through bearings on the body portion, nuts on the ends of said rods, and an adjustable plate parallel with the vertical portion of the body, substantially as described.

3. The combination of the body portion with an opening and a thumb-piece formed of the material removed to provide said opening, the plate and its adjusting and holding means, and means for detachably and adjustably holding a file, as set forth.

4. The combination of the sheet metal body having the ends of its horizontal portion turned over to form eyes, the rods passed through said eyes and having hooked ends, and the nuts on the other ends of said rods, substantially as specified.

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

SILAS BUCKINGHAM.

Witnesses:

CLARENCE L. ELLIS,
JNO. C. MCCLEARY.