

(No Model.)

J. F. MILLER.
CARPENTER'S VISE.

No. 297,282.

Patented Apr. 22, 1884.

Fig. 1.

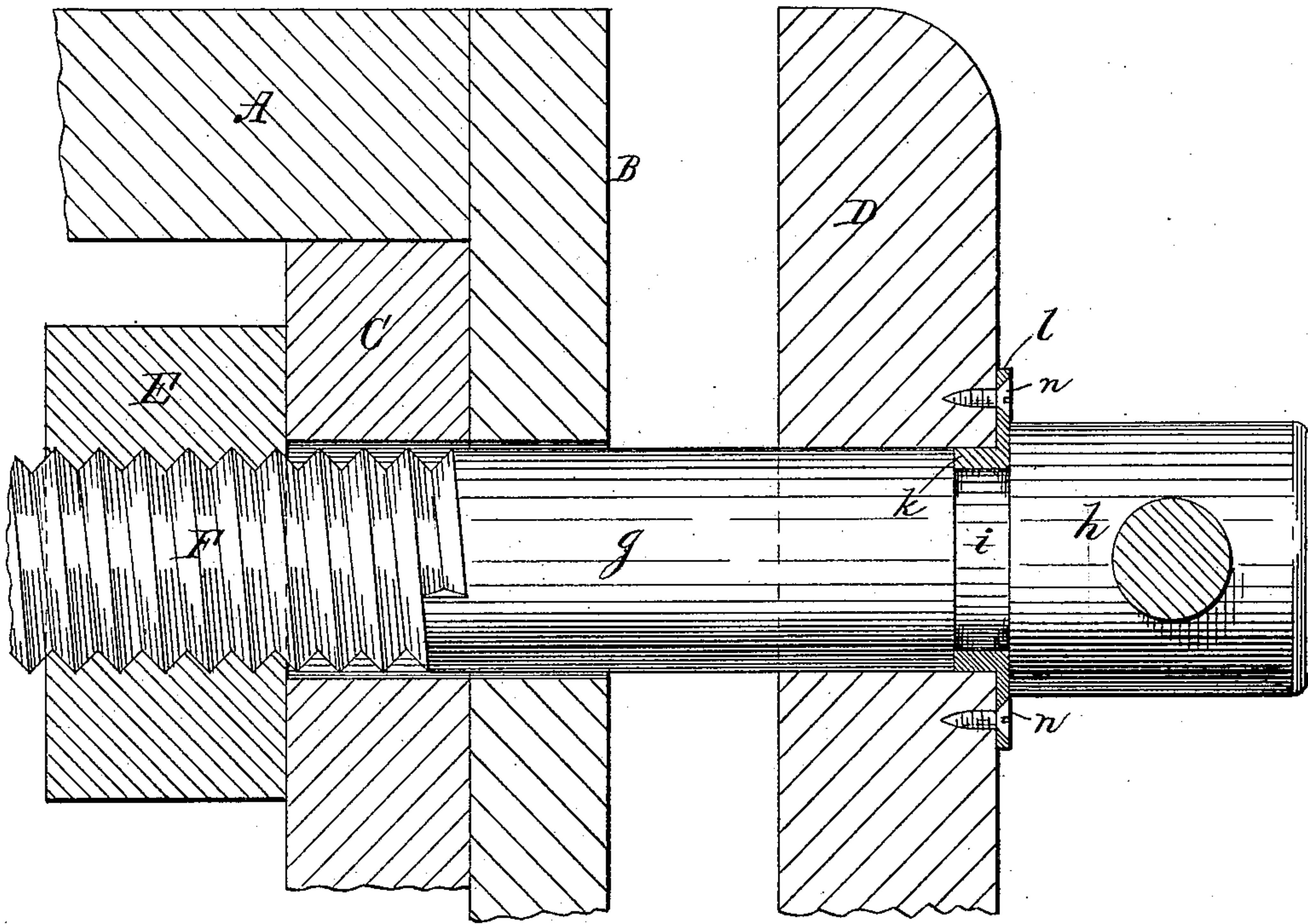
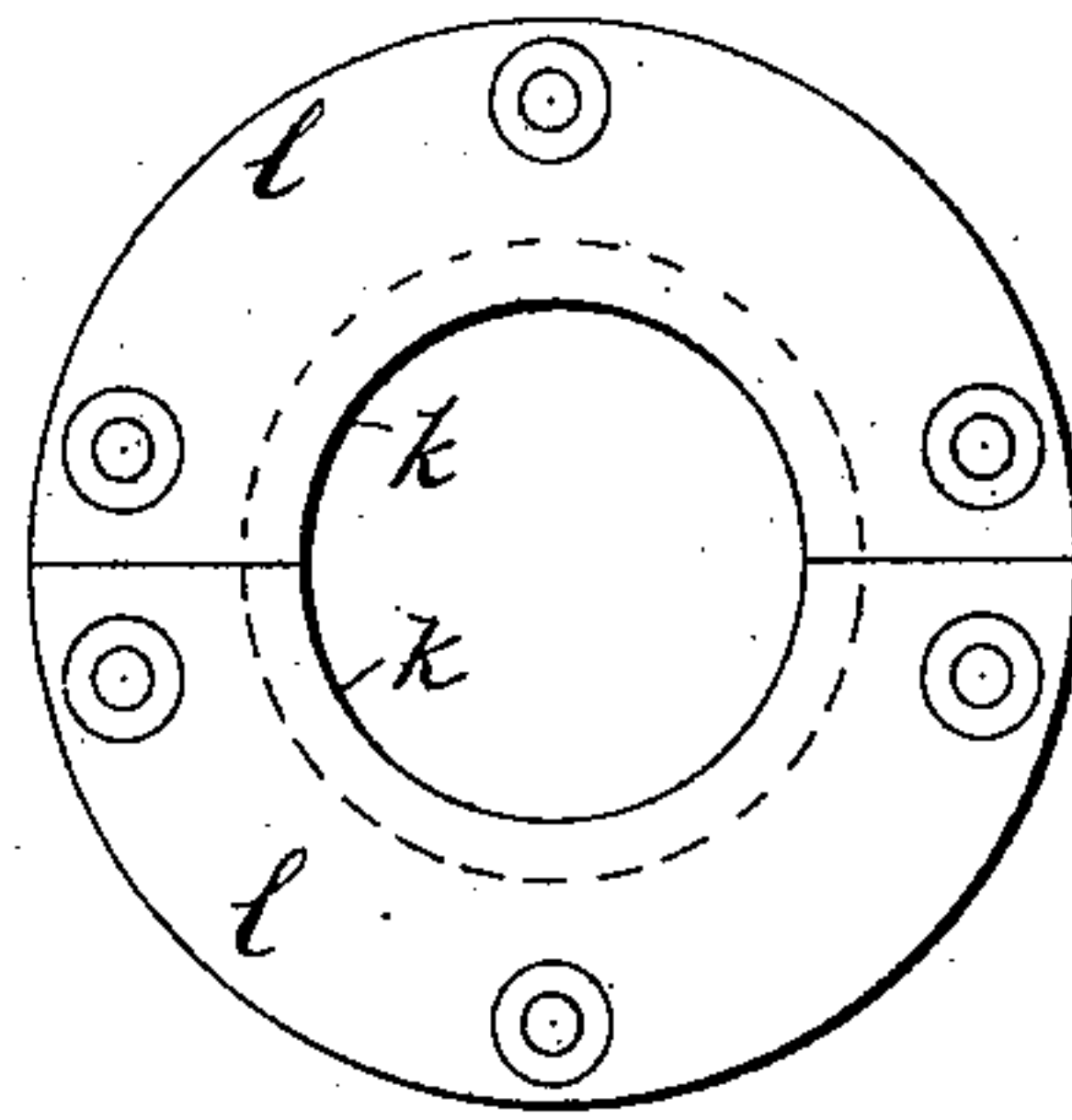


Fig. 2.



Witnesses: -
G. Smith.
T. J. Patterson

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UNITED STATES PATENT OFFICE.

JOHN F. MILLER, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
TO WALTER E. HAGUE, OF SAME PLACE.

CARPENTER'S VISE.

SPECIFICATION forming part of Letters Patent No. 297,282, dated April 22, 1884.

Application filed September 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. MILLER, of
Pittsburg, in the county of Allegheny and
State of Pennsylvania, have invented certain
5 new and useful Improvements in Carpenters'
Vises; and I do hereby declare that the fol-
lowing is a full, clear, and exact description
of the invention, which will enable others
skilled in the art to which it appertains to
10 make and use the same, reference being had to
the accompanying drawings, which form a
part of this specification, in which—

Figure 1 is a sectional elevation of a work-
bench with my improvements. Fig. 2 is a face
15 view of the metallic sleeve and flange.

This invention relates to a novel construc-
tion of carpenters' vises and bench-screws;
and it consists in the construction and combi-
20 nation of devices, substantially as hereinafter
fully described and claimed.

In the drawings, A is the work-bench, B its
facing, C one leg, and D the movable vise-jaw,
all of wood, as usual.

E is the large nut fixed behind leg C, and
25 fitting this nut is the vise-screw F. The screw
F has the plain shank *g* and head *h*, and,
next to the head, is formed with the circum-
ferential groove *i*, the jaw D being bored out
to allow the insertion of screw F. I cast a
30 metallic sleeve, *k*, in two parts, to clasp and
move freely in groove *i*, and provided with
the flange *l*, as shown, having suitable screw-
holes. I first set the two-part sleeve into the
groove *i*, and then insert the screw through

the opening in jaw D till the flange *l* meets 35
the jaw, to which the flange is then firmly se-
cured by the screws *n*. Upon now revolving
screw F into and out of the nut E the jaw will
be carried in both ways positively. The head
h having a bearing endwise on metal, instead 40
of wood, will not cause any wear on the jaw
D, and as a consequence the screw and head
can be turned out of a billet of wood much
smaller in section than formerly. This allows
a very considerable reduction in first cost of 45
the screw, as regards both material and labor.

The vise-jaw D need not be mortised or
bored edgewise, and hence will be stronger.

I claim as my invention—

1. In a carpenter's vise, the combination, 50
with the jaw D, of the screw F, having shank
g, groove *i*, and head *h*, and the two-part me-
tallic sleeve *k*, having flange *l* secured to said
jaw, substantially as described.

2. The combination of the nut E, screw F, 55
having head *h*, and groove *i* next to said head,
and metallic sleeve *k*, having flange *l*, said
sleeve fitting in groove *i*, and said flange be-
ing constructed, substantially as described, for
attachment to a vise-jaw, as set forth. 60

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

JOHN F. MILLER.

Witnesses:

THOMAS J. PATTERSON,
CLARENCE BURLEIGH.