

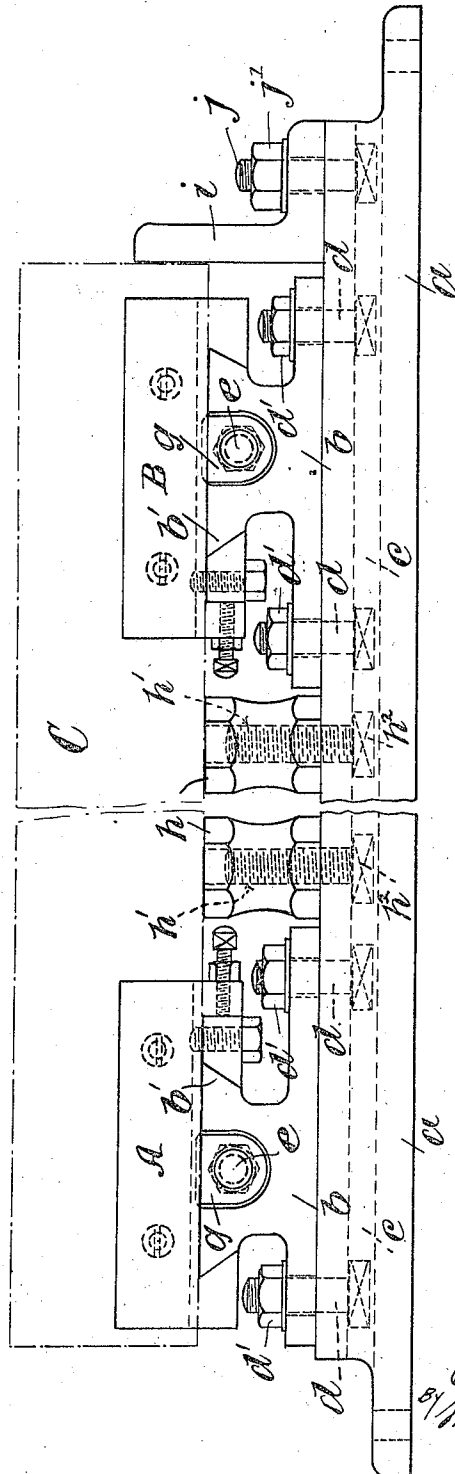
Oct. 16, 1923.

1,471,118

E. GETHING
ATTACHMENT FOR SECURING THE WORK TO THE TABLES OF PLANING,
MILLING, AND LIKE MACHINES
Filed Dec. 8, 1921

4 Sheets-Sheet 1

Fig. 1.



INVENTOR:

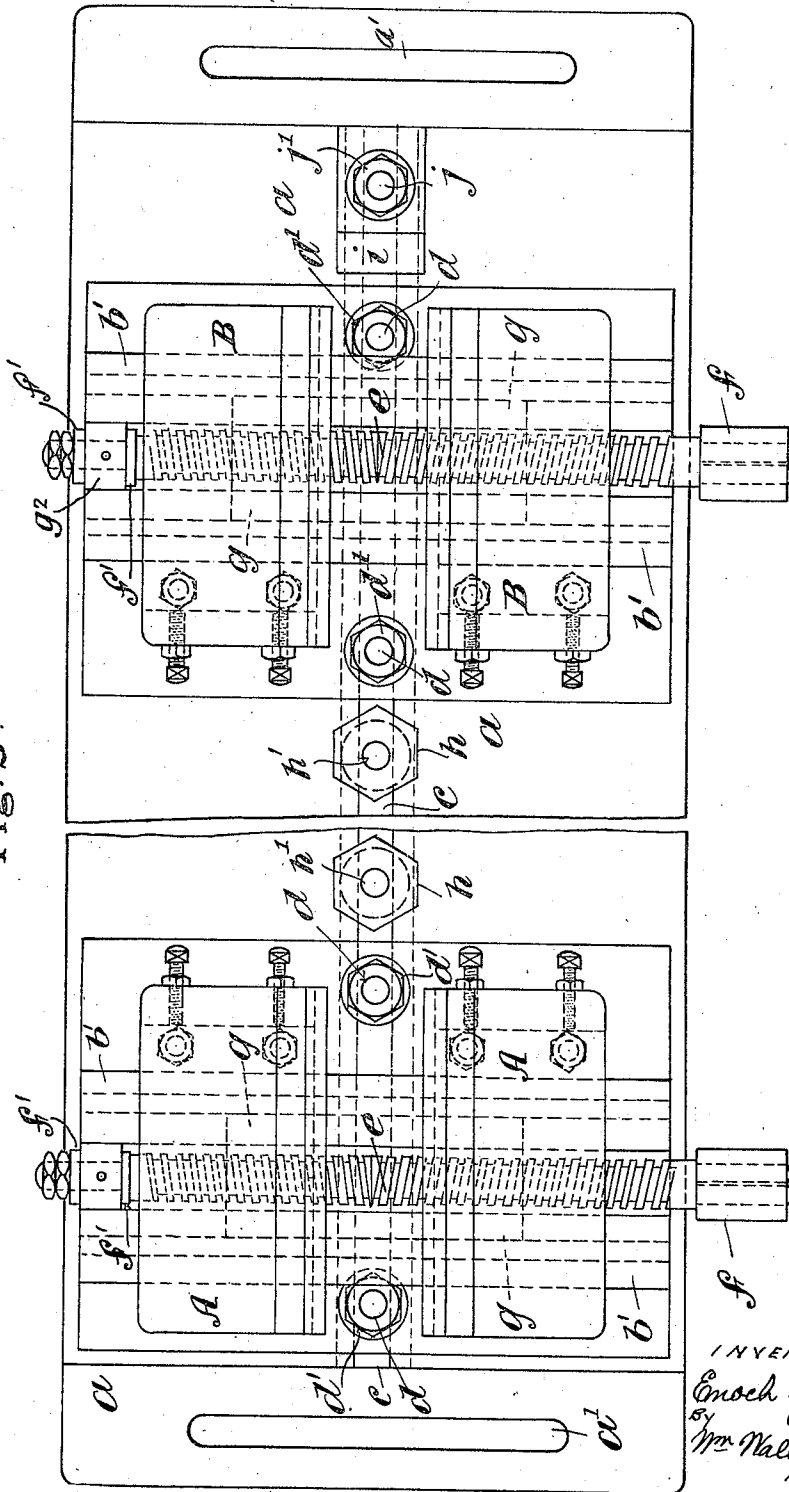
Enoch Gething
BY *Wm Wallace White*
ATTY.

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Fig. 2.



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Fig. 3.

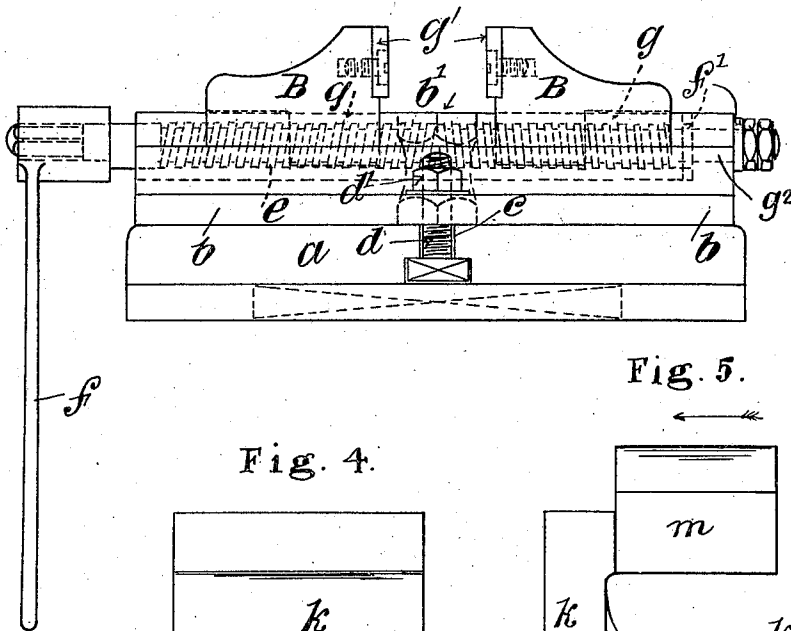


Fig. 4.

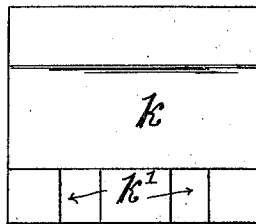


Fig. 5.

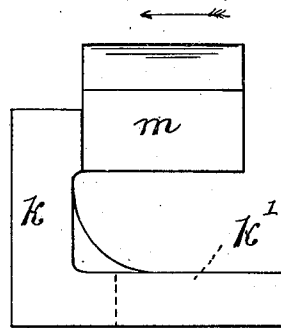


Fig. 6.

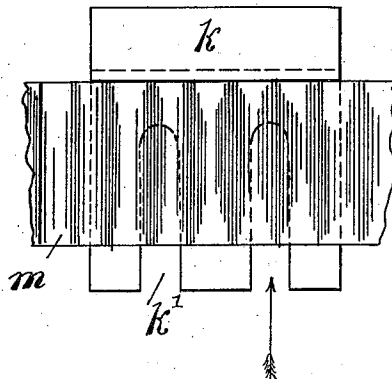


Fig. 7.

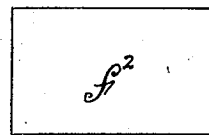
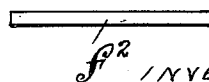


Fig. 8.



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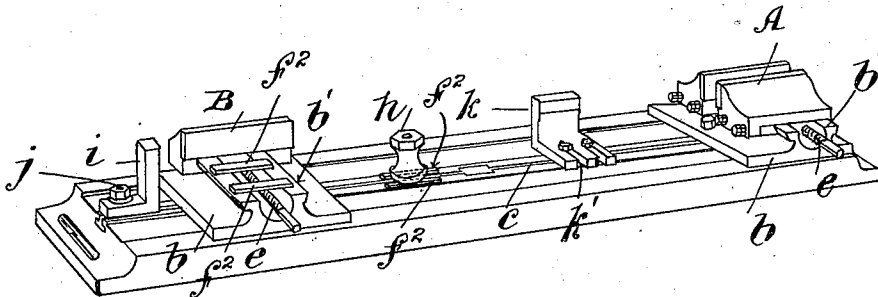
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FIG. 9.



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Patented Oct. 16, 1923.

1,471,118

UNITED STATES PATENT OFFICE.

ENOCH GETHING, OF MANCHESTER, ENGLAND, ASSIGNOR OF ONE-HALF TO GEORGE
FREDERICK TETLOW, OF MANCHESTER, ENGLAND.

ATTACHMENT FOR SECURING THE WORK TO THE TABLES OF PLANING, MILLING, AND
LIKE MACHINES.

Application filed December 8, 1921. Serial No. 520,889.

To all whom it may concern:

Be it known that I, ENOCH GETHING, a
subject of the King of Great Britain and
Ireland, residing at 12 Albion Street, Miles
5 Platting, Manchester, in the county of Lan-
caster, England, have invented new and
useful Improvements in an Attachment for
Securing the Work to the Tables of Planing,
Milling, and like Machines, of which the
10 following is a specification.

The invention has reference to an attach-
ment or device by means of which the work
to be operated on can be readily secured in
position on the tables of planing, milling and
15 other like machine tools.

Such an attachment consists of a base
plate having a pair of vices adjustable
towards and from each other. The jaws of
each vice are operated by a right and left
20 hand screwed spindle. The work is clamped
in the jaws which can be readily set in the
required position and intermediate support
for the work is also provided.

The invention is fully illustrated in the
25 accompanying drawings which will now be
described in detail.

Fig. 1 of the drawings illustrates a side
elevation of the attachment, broken in length
for want of space.

30 Fig. 2 is a plan thereof.

Fig. 3 is an end view.

Figs. 4, 5 and 6 illustrate a detail part in
front, side and plan view respectively, and,

35 Figs. 7 and 8 show in plan and edge view
respectively a sample of a packing strip
which can be used with the appliance.

Fig. 9 is a perspective view showing the
application of the packing strips and side
brackets to the attachment.

40 The attachment made in accordance with
my invention consists of a base plate *a*, the
ends of which are slotted as at *a'* or other-
wise prepared to enable it to be bolted in
any desired position upon the table of the
45 planing or like machine. It will be under-
stood that this base plate may be made to
any convenient size or in varying sizes.

The base plate *a* carries a pair of vices
each vice consisting of a plate *b* capable of
50 being slid longitudinally in a prepared way
or groove *c* in the base plate, towards or
from each other and secured in any desired
position on the base plate *a* by bolts *d* and
nuts *d'* the heads of the bolts being disposed

in the prepared groove, which may be of T 55
or other shape. Each of such slidable plates
b carries a pair of jaws marked A A, B B,
to form a vice, the jaws being slidable on V
shaped or like guides *b'* formed on the plate
b towards and from each other transversely 60
on the slidable plate by means of a right and
left hand screwed spindle *e* rotatable by a
suitable handle *f*, and engaging with nuts *g*
carried by the jaws.

Endwise movement of the screwed spindle 65
is prevented by the collars *f'*, *f'* confining
the reduced end of the spindle in the plain
bearings *g*². The work placed in the jaws
of the vices is accurately centred as the jaws
of the vices when actuated by the right and 70
left hand screwed spindles move equally
from and towards the longitudinal centre
line of the base plate *a*. The vices are pro-
vided with steel faces *g'* which may be of
soft steel or otherwise as preferred. The V 75
shaped guides *b'* on which the jaws of each
vice slide form parallel surfaces to support
the work C, indicated by dotted lines, placed
in the vices. The base plate *a* between the
vices, is also provided with parallel support- 80
ing pillars *h*, slidable in the T groove *c* of
the base plate and which can be secured in
any desired position to serve as intermediate
supports for the work to resist bending
strain and give the same stability as if the 85
work were flat on the machine table. These
parallel supports are shown in the draw-
ings as taking the form of flat topped nuts
h carried on screwed bolts *h'*, the heads *h*²
of which are disposed in the T groove of the 90
base plate *a*. By slackening such nuts they
may be slid into any required position and
secured by tightening them on the bolts. A
stop *i* is also provided slidable in the slot in
the base plate, to act as an adjustable abut- 95
ment for one end of the work. This stop is
secured in position by a bolt *j* the head of
which is disposed in the T groove of the
base plate *a*, and nut *j'*. The work may be
100 raised in the vices A A, B B, by providing a
series of parallel packing plates *f*² placed in
the vices beneath the work, one of which is
shown in plan in Fig. 7, and in edge view
in Fig. 8, to adjust the work to the correct
105 height and these parallel packing plates
could be used in conjunction with the sup-
porting pillars by inserting them between
the nuts *h* and the base plate. This is illus-

trated in Fig. 9, in which, for the sake of clearness, one of the jaws B of a vise has been removed.

Provision may also be made to resist lateral or cross strains such as when cutting rack teeth upon a bar. This could take the form of a bracket or stop illustrated in Figs. 4 to 6. The bracket *k* is provided with slots *k'* to enable it to be secured to the base plate *a* and it provides a side abutment for the bar *m* on which the rack teeth are being cut, to resist side strains in the direction of the arrow. Fig. 9 shows the bracket *k* carried by the appliance.

Such an attachment as described greatly facilitates the setting of work in planing and like machines and would be particularly useful for repetition work. With small work a single vice only might be used, the two vices being employed when the work is required to be held at both ends, in which case the intermediate supporting pillars and brackets for cross strains can be usefully employed.

I declare that what I claim is:

1. An attachment for securing work in proper position to the tables of planing, milling and other like machine tools, consisting of a base plate, two plates slidable in guides in such base plate towards and from each other longitudinally on the base plate, a vice carried by each of such slidable plates and consisting of two jaws slidable laterally across the base plate, the work being clamped and centred in such vices substantially as described.

2. An attachment for securing work in proper position to the tables of planing, milling and other like machine tools, consisting of a base plate, two plates slidable in guides in such base plate towards and from each other longitudinally on the base plate, a vice carried by each of such slidable plates and consisting of two jaws slidable laterally across the base plate, an end stop or abutment for the work, the side brackets or abutments, and intermediate supports and packing strips, to enable the work to be supported and adjusted at any required height substantially as described.

3. An attachment for securing work in proper position to the tables of planing, milling and other like machine tools consisting of a base plate, means for securing such base plate to the table of the machine tool, two plates slidable in guides in the base plate towards and from each other longitudinally on the base plate with means for securing such slidable plates to the base plate, a vice carried by each of such slidable plates and consisting of two jaws, means for guiding and sliding such jaws towards and from each other laterally across the base plate to clamp and centre work placed in the vices, an end stop or abutment for the work, side brackets and intermediate supports and packing strips, to enable the work to be supported and adjusted substantially as described.

In testimony whereof I have signed my name to this specification.

ENOCH GETTING.