

Dec. 23, 1930.

F. VOGT

1,786,045

DRAWER GUIDE

Filed Sept. 27, 1928

2 Sheets-Sheet 1

Fig. 1.

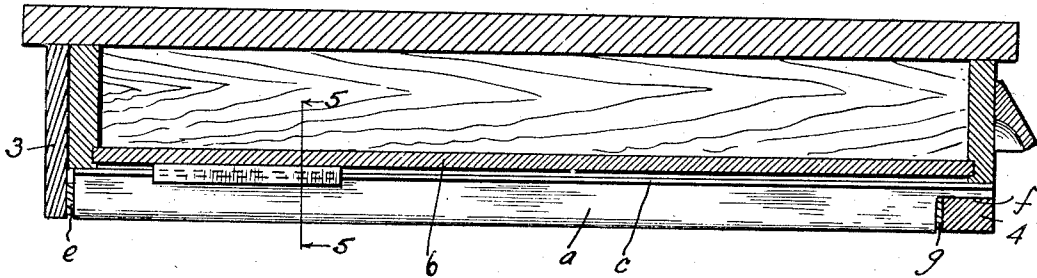
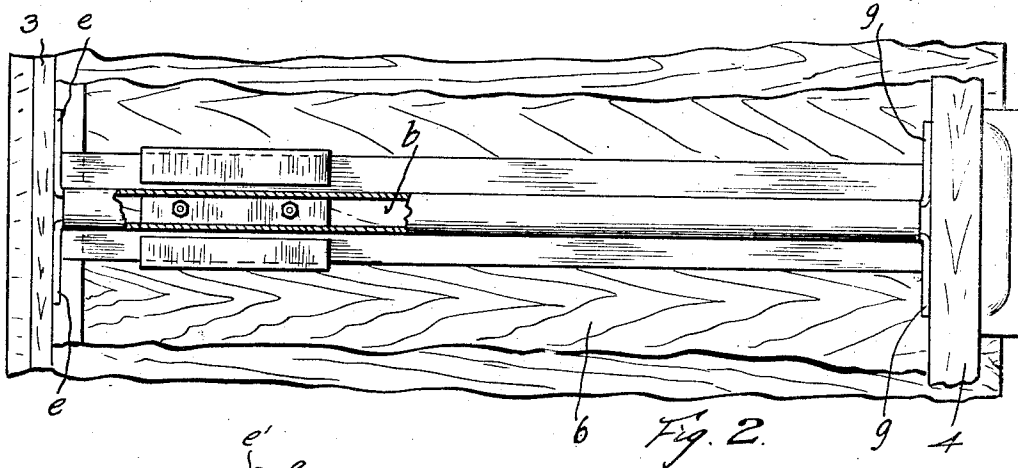
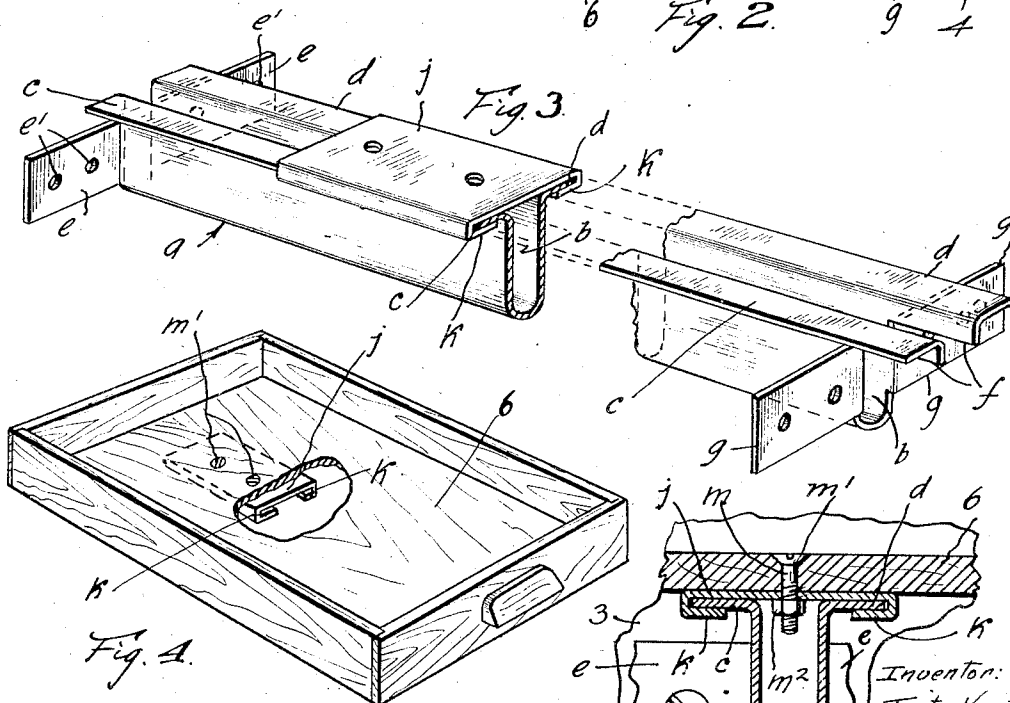
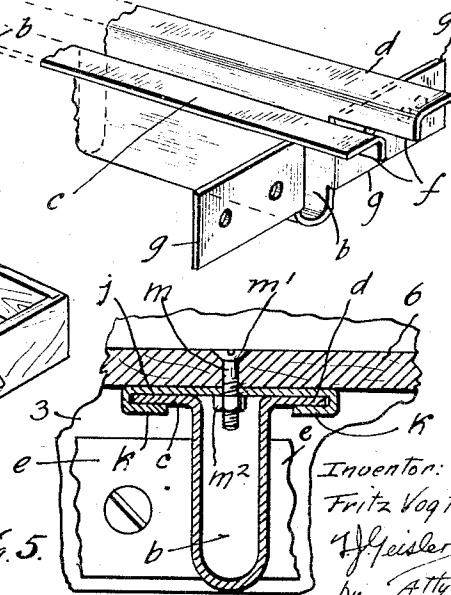


Fig. 4.

Fig. 5.



Inventor:
Fritz Vogt
J. Feiler
by Atty.

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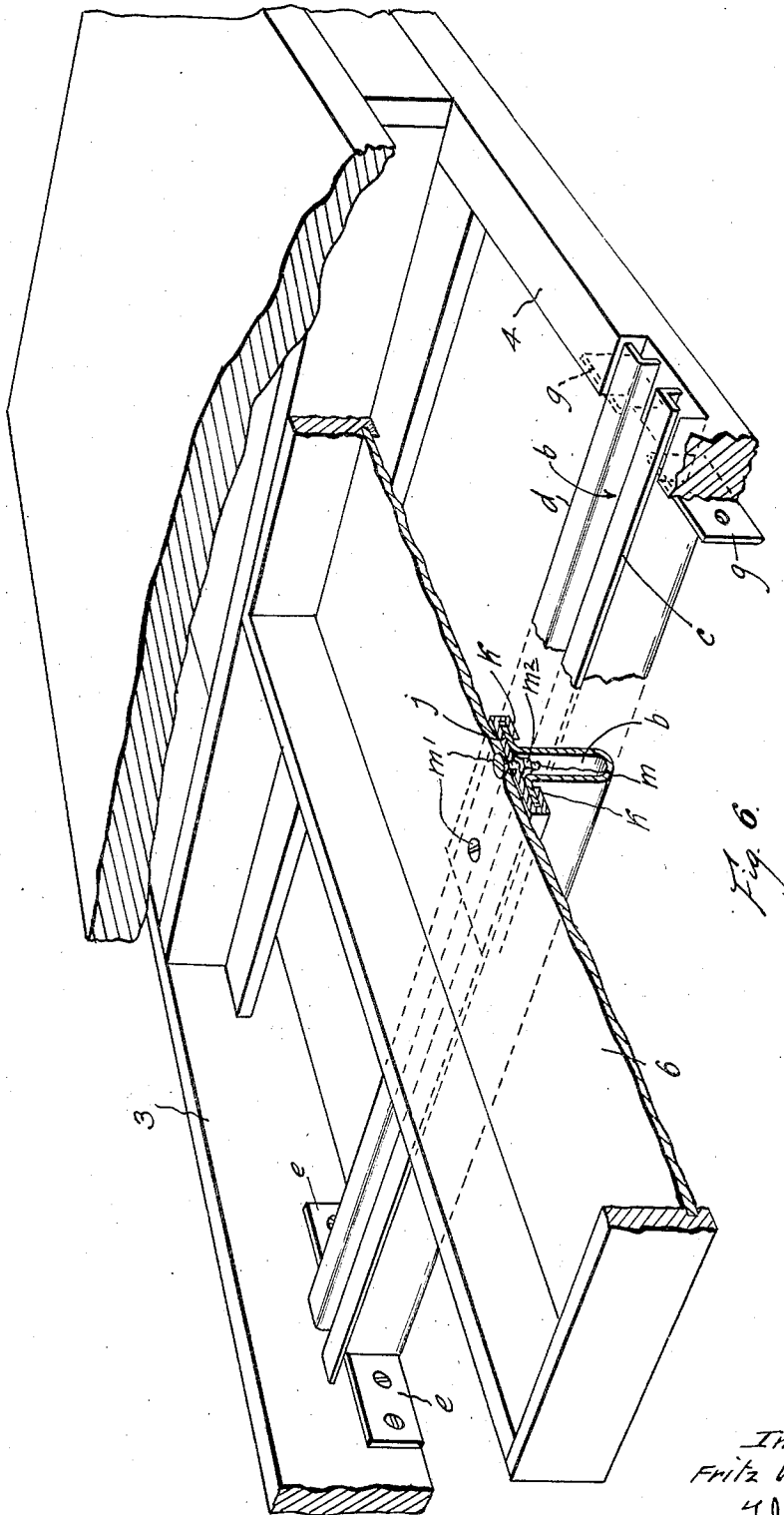
F. VOGT

1,786,045

DRAWER GUIDE

Filed Sept. 27, 1928

2 Sheets-Sheet 2



Inventor:
Fritz Vogt,
by J. J. Geisler
Att.

UNITED STATES PATENT OFFICE

FRITZ VOGT, OF PORTLAND, OREGON

DRAWER GUIDE

Application filed September 27, 1928. Serial No. 308,616.

My invention relates to sliding drawer guides and the like.

At present, furniture such as desks, 5
bureaus, cabinets and the like, which are
manufactured in large quantities, entirely by
machine methods, do not permit of the careful
and accurate work of the cabinet maker, in
fitting the drawers in their compartments;
and to assure sufficient clearance for the slid-
ing movement of the drawers, the compart-
ments are made relatively larger than the
drawer; this however permits lateral move-
ment of the drawer in its compartment with
the result that if the drawer is not moved in
a line parallel with the side walls of the com-
partment, it will tend to stick and jam.

The object of my invention is to provide
simple and efficient means, adapted to be
economically manufactured from relatively
light sheet metal in two operations, that is,
by stamping and forming, and which may be
embodied in the construction of even the sim-
plest of furniture which is provided with
sliding drawers, whereby the tendency of the
drawers to bind and stick when being opened
and closed, will be avoided.

A further object of my invention is to pro-
vide an economical drawer guide, also adapt-
ed to be conveniently installed in pieces of
furniture already manufactured.

A still further object of my invention is to
provide a drawer guide, formed U-shaped in
cross section, the sides of the U-shaped por-
tion being spaced apart, so that the end of
the bolt securing the guide element carried
by the drawer, may be projected downwardly,
in the said U-shaped space, without inter-
fering with the longitudinal movement of
the drawer, thereby simplifying the attach-
ment of the guide element to the drawer; and
further by adapting the guide-rail to extend
through the front portion of the drawer com-
partment. The drawer will be adapted to be
removed without detaching any part of the
guide from either the drawer or its compart-
ment.

I attain my objects in a drawer guide com-
prising a one-piece metal sheet formed U-
shaped in cross-section, with the upper ex-
tremities of the legs bent outward at right

angles to provide lateral guide-flanges, the
said legs having substantial height, the oppo-
site ends of the legs having portions longi-
tudinally slitted, and such portions being bent
to project laterally, to provide ears adapted
for being fastened to the interior faces of the
frame-bars of the structure, with the end por-
tions of the drawer guide above said ears, ex-
tending over and supported by said frame
bars, whereby to brace the latter, in combi-
nation with a drawer provided on its under-
side with guide-means cooperating with said
drawer guide.

These and other incidental features of my
invention, the details of construction and
mode of installation are hereinafter more
fully described with reference to the accom-
panying drawings.

In the drawings:

Fig. 1 shows a central longitudinal section
taken through a drawer and its compartment
and illustrates the embodiment of my inven-
tion therewith;

Fig. 2 shows a fragmentary view taken
from the underside of a drawer and its com-
partment and illustrates further details of
arrangement;

Fig. 3 shows a fragmentary perspective
view of my drawer guide;

Fig. 4 shows a perspective view of a drawer
with the guide element affixed thereto;

Fig. 5 shows a section taken on the line
5—5 of Fig. 1 and illustrates further details
of construction; and

Fig. 6 shows a fragmentary, perspective
view of a drawer and its compartment and
the relative arrangement of my guide therein.

My invention comprises with reference to
the figures, an elongate guide-rail *a*, U-shaped
in cross section, with the legs thereof form-
ing an intermediate space *b* between, the said
legs being provided at their tops with longi-
tudinal, outwardly projecting flanges *c*, *d*,
perpendicular to the said U-shaped portion.

The rear end of the guide-rail is provided
with lateral ears *e*, perpendicular to the said
flanges *c*, *d* and the forward end of the guide-
rail is cut away as at *f* and provided with
similar ears *g*, located inwardly of the end
thereof.

As shown in Figs. 2 and 6 the guide-rail *a* is adapted to be centrally and longitudinally arranged in the bottom plane of the drawer compartment in parallel alignment with the side walls 2 and secured to the rear wall 3 and the front section 4, by the ears *e*, and *g*, respectively, by screws or other suitable means inserted through holes *c'*, *g'*. A notch 4*a* is formed in the front section 4 to accommodate the projecting forward ends of the guide-rail *a*.

A guide element *j* is provided adapted to be secured to the underside of the drawer bottom 6, comprising inturned companion portions *k*, adapted to be slidably arranged over the flanges *c* and *d*, Fig. 5.

The guide element is secured to the bottom of the drawer by bolts *m* or similar means, the head *m'* of which will be flush with the inner surface of the drawer bottom and the other end of which will project downwardly into the space *b* between the U-shaped sides of the guide, to which a nut *m*² may be threaded.

By this construction the downwardly projecting portion of the bolt and its nut will be accommodated without interfering with the sliding movement of the drawer.

Further, by providing a notch 4*a* in the front section of the drawer compartment and extending the guide-rail until it is flush with the outer surface of the compartment, the drawer may be removed, without detaching any part of the drawer guide from either the drawer or its compartment.

Furthermore, by forming the guide-rail U-shaped in cross section, with a substantial space between the sides, the tendency of the metal to break while being folded is reduced.

I claim:

1. In a structure having a drawer, a drawer-guide comprising a one-piece metal sheet formed U-shaped in cross-section, with the upper extremities of the legs bent outward at right angles to provide lateral guide-flanges, the said legs having substantial height, the opposite ends of the legs having portions longitudinally slitted, and such portions being bent to project laterally, to provide ears adapted for being fastened to the interior faces of the frame-bars of the structure, with the end portions of the drawer guide above said ears, extending over and supported by said frame-bars, whereby to brace the latter, in combination with a drawer provided on its underside with guide-means cooperating with said drawer guide.

2. In a structure having a drawer, a drawer-guide comprising a one-piece metal sheet formed U-shaped in cross-section, with the upper extremities of the legs bent outward at right angles to provide lateral guide-flanges, the said legs having substantial height, the opposite ends of the legs having portions longitudinally slitted, and such por-

tions being bent to project laterally, to provide ears adapted for being fastened to a support with the end portions of the drawer guide above said ears, extending over and supported by said support, whereby to brace the latter.

FRITZ VOGT.