

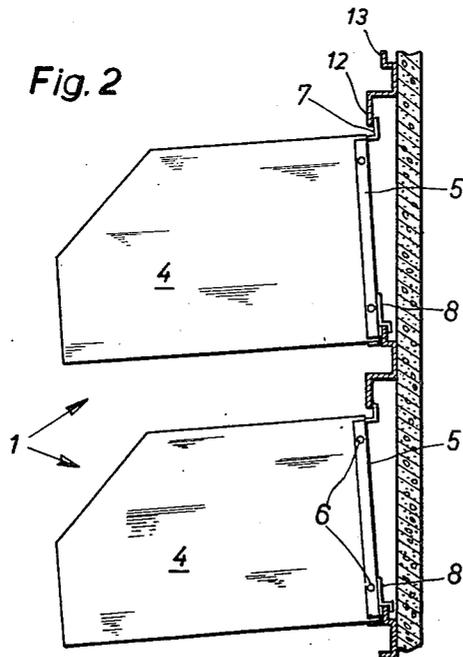
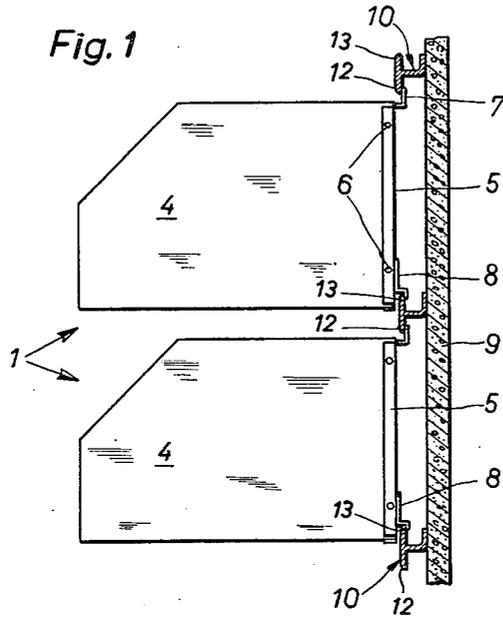
July 31, 1962

W. SCHOLL  
FILING DEVICE

3,047,158

Filed Sept. 30, 1959

2 Sheets-Sheet 1



July 31, 1962

W. SCHOLL  
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3,047,158

Filed Sept. 30, 1959

2 Sheets-Sheet 2

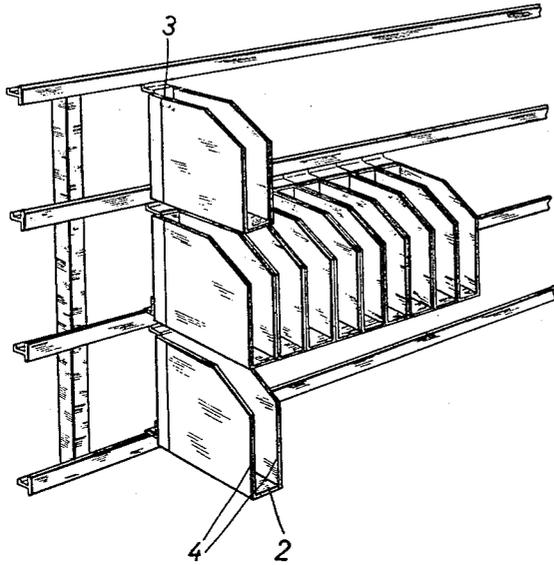


Fig. 3

Fig. 7

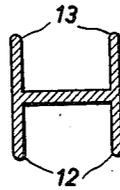


Fig. 4

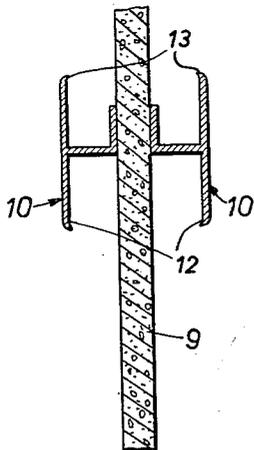


Fig. 5

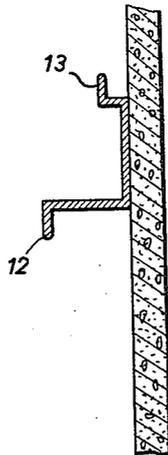
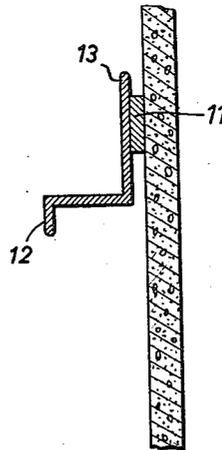


Fig. 6



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3,047,158

**FILING DEVICE**

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Filed Sept. 30, 1959, Ser. No. 843,537  
6 Claims. (Cl. 211-126)

The present invention relates to a filing device having  
outreachingly secured boxes removably supported on a  
supporting rail and held against tipping by being suspended  
from a holding rail arranged at a higher level than the  
supporting rail.

Other features and advantages of the invention will  
become apparent from the ensuing description of embodi-  
ments thereof, given by way of example only, and in  
which reference is made to the accompanying drawing,  
in which:

FIGURE 1 illustrates a first,

FIGURE 2 a modified embodiment, and

FIGURE 3 a perspective view of a filing device.

FIGURES 4 to 7 further show different profiles of  
the supporting rails.

In the drawings reference numeral 1 designates file con-  
tainers in form of boxes adapted to receive files and  
which for the sake of simplicity are represented in FIG-  
URES 1 to 3 of same construction. It should be noted  
here, however, that the shape and structure of these  
boxes may be widely varied without departing from the  
invention. Some modifications of the structure of the  
boxes shall further be indicated hereafter. In the repre-  
sented type the boxes 1 comprise a base or bottom 2,  
a back 3 and side walls 4, these parts being best seen  
from the perspective illustration of FIGURE 3. From  
the latter figure and more particularly from FIG-  
URES 1 and 2 it is further visible that the back of the  
boxes is shielded by a cover or protective plate 5, e.g.  
of sheet metal, the rims of which are bent at right angles  
at both sides as well as at the bottom about the side  
walls 4 and the bottom 2, respectively. The protective  
plate 5 is secured to the box by means of rivets 6.

The upper rim of each protective plate 5 is prolonged  
beyond the folded side rims and the prolonged portion  
is rearwardly cranked or hooked to form a gripper mem-  
ber 7. In the lower end portion of the protective plate  
5 is secured a supporting member 8 also cranked or  
hooked to the rear but downwardly. This supporting  
member made for example of a sheet metal plate could,  
as also the gripper member 7, be formed from a portion  
of the protective plate 5 itself. At a wall portion 9,  
which may be the rear wall of a cupboard but which  
also may be any wall of a room, there are spacedly ar-  
ranged parallelly and horizontally extending profile rails  
10 of T-shaped cross-section. These rails 10 are se-  
cured to the wall through vertical beams to which the  
rails are secured by means of a bent end of their web.  
As well the gripper member 7 as also the supporting  
member 8 of the boxes engage the rear side of the rails  
10 whereby the gripper member 7 cooperates with the  
lower edge 12 of the rails 10 while the supporting mem-  
ber rests on the upper edge 13 thereof. Thus, each box  
1 is held by an upper and a lower rail portion 12 and  
13, respectively. Thereby of course the lower rail por-  
tion serves as supporting rail and the upper rail portion  
serves to prevent any tipping of the boxes about the  
lower rail and thus may be designated as holding rail.  
With appropriate structure of the profile rails such as  
for example the represented one, several rows of boxes  
may be arranged in superposed relation whereby each  
profile rail includes a supporting rail and a holding rail  
for two superposed adjacent rows of boxes.

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As is clearly visible from FIGURES 1 and 2 the dis-  
tance separating two profile rails is chosen such that the  
boxes 1 may be somewhat lifted before the gripper mem-  
ber 7 abuts the holding rail 12. This lifting permits  
unhooking of the supporting member 8 from the support-  
ing rail 13 whereafter the box 1 may easily be removed.  
Thereby it should be noted that when the box is lifted it  
cannot abut against and thus damage the boxes of the  
upper row of boxes.

In order to insert a box into the represented and de-  
scribed filing device first the gripper member 7 of the box  
is engaged whereafter the box is pivoted downwardly  
and rearwardly until the protective plate 5 rests on the  
supporting rail 13. Then the box is lowered whereby  
the supporting member 8 is hooked on the supporting  
rail 13. The thus inserted box may easily be displaced  
laterally by sliding.

In some cases it may be desirable to suspend the boxes  
so that they rest in a position in which they are slightly  
inclined forwardly. This may be attained as shown in  
FIGURE 2 by arranging the edges of the profile rails  
serving as supporting rail 13 and holding rail 12, respec-  
tively, not in the same vertical plane. On the other hand  
the cranking of the gripper member 7 could exceed in  
rearward direction the cranking of the supporting mem-  
ber 8 in order to obtain the same inclined position of  
the box with the profile rails according to FIGURE 1.

An inclined suspension of the boxes is also rendered  
possible by the rail profiles shown in FIGURES 5 and 6,  
the latter consisting of commercially used Z-irons secured  
spaced from the wall by an intermediate member 11.

According to FIGURE 4 the rails 10 are secured to  
both sides of a wall 9 said rails having a profile as shown  
in FIGURE 1. In this manner the filing device could  
be arranged to utilize at the best the available room.

Similar arrangements may be made with supports as  
shown in FIGURE 7 of H-shaped cross-section. Prefer-  
ably such supports are secured to the walls at both ends.  
The possibility of securing the profile rails at both of  
their ends, for example to the side walls of a filing cup-  
board is present for any desired rail profile. In this man-  
ner it could also be possible to secure filing devices by  
means of rods or framings fastened between the floor and  
the ceiling of a room.

As is clearly visible from the preceding description the  
rail profile may be freely chosen within the scope of the  
invention as it is also possible to make use of several  
shapes of boxes. For example the aforementioned grip-  
per and supporting members could be formed by an un-  
cranked prolongation of the cover or protective plate,  
whereby the lateral rim thereof folded onto the side  
walls of the box could be prolonged downwardly and  
folded about the bottom of the box in order to protect  
the latter too,

Filing devices as described present over prior filing de-  
vices using letter files and suspended wrappers an excel-  
lent accessibility, easy divisibility combined with possi-  
bility of re-arrangement. Moreover they are space-sav-  
ing. The present invention provides such a filing device  
which in addition is cheap in manufacture, very strong  
and stable, easy to handle and for this reason brings fur-  
ther progress to the handling and storing of files. As  
well the supporting rails as also the holding rails may  
be provided with spaced abutments securing the position  
of each box. The same purpose could also be attained  
by slotting one or several rails whereby the gripper and/or  
the supporting members may engage these slots.

I claim:

1. A storage system comprising vertically spaced, sub-  
stantially horizontal rails, the upper of said rails includ-  
ing a downwardly extending flange and the lower of said  
rails including an upwardly extending flange, said flanges

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including respective extremities spaced at a predetermined distance, a container including a rear portion having upper and lower ends, rearwardly extending members on said upper and lower ends and spaced at a distance which is less than said predetermined distance, and upwardly and downwardly extending members on the rearwardly extending members of the upper and lower ends of said rear portion respectively and adapted for hooking behind said flanges so that the weight of the container rests on the lower rail and so that the upwardly extending member limits the tendency of said container to pivot about said lower rail, the upper member being larger than the lower member to permit ready detachment of the container from said rails.

2 A system as claimed in claim 1, wherein each rail includes a second flange whereby to cooperate with a further container.

3. A system as claimed in claim 1, wherein said rear

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portion and the said upwardly and downwardly extending members are in spaced parallel planes.

4. A system as claimed in claim 1, wherein the rails are T-shaped.

5. A system as claimed in claim 1, wherein the rails are Z-shaped.

6. A system as claimed in claim 1, wherein the rails are H-shaped.

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