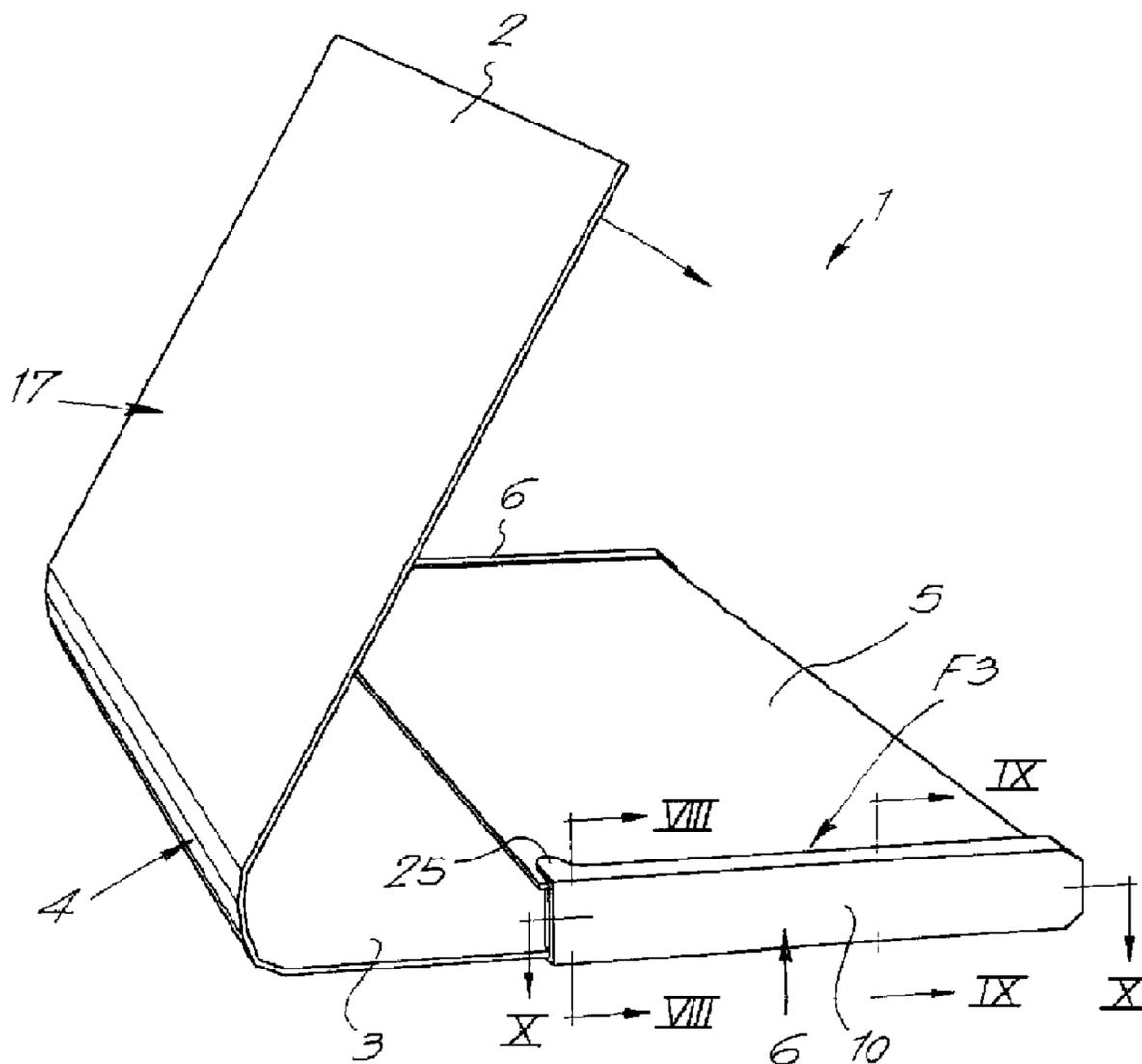




(22) Date de dépôt/Filing Date: 1997/10/14  
 (41) Mise à la disp. pub./Open to Public Insp.: 1998/04/15  
 (45) Date de délivrance/Issue Date: 2006/05/23  
 (30) Priorité/Priority: 1996/10/15 (BE9600870)

(51) Cl.Int./Int.Cl. *B42F 7/00* (2006.01),  
*B42F 7/14* (2006.01)  
 (72) Inventeur/Inventor:  
PELEMAN, GUIDO, BE  
 (73) Propriétaire/Owner:  
UNIBIND (CYPRUS) LIMITED, CY  
 (74) Agent: ROBIC

(54) Titre : DOSSIER  
 (54) Title: FILE



(57) **Abrégé/Abstract:**

File, consisting of a front sheet (2) and a rear sheet (3) made of a rigid material which are connected to each other by a flexible back (4), and whereby at least one of the said sheets (2-3) is provided with an inwardly directed flap (5) which is kept at its side edges by means of connecting pieces (6) at a distance from the concerned sheet (2-3) to which this flap (5) is attached characterized in that the connecting pieces (6) are at least attached to the concerned sheet (2-3) and the flap (5) by means of mere mechanical connections.

File.

---

5 File, consisting of a front sheet (2) and a rear sheet  
(3) made of a rigid material which are connected to each  
other by a flexible back (4), and whereby at least one of  
the said sheets (2-3) is provided with an inwardly  
directed flap (5) which is kept at its side edges by  
10 means of connecting pieces (6) at a distance from the  
concerned sheet (2-3) to which this flap (5) is attached  
characterized in that the connecting pieces (6) are at  
least attached to the concerned sheet (2-3) and the flap  
(5) by means of mere mechanical connections.

15

Figure 1.

File.

---

The present invention relates to a file, more  
5 particularly a file such as the ones used to collect  
bundles of loose documents or to collect periodicals and  
similar.

More particularly it concerns a file which is provided  
10 with an inwardly directed flap which at its side edges is  
kept by means of connecting pieces at a distance of the  
sheet to which the flap is attached.

With the known types of files the connecting pieces are  
15 glued to the edges of the flap and to the edges of the  
concerned sheet.

These known embodiments have a number of drawbacks. For  
instance, the assembly has to be done in the factory and  
20 in its finished shape the file occupies much space,  
whereby the latter is disadvantageous for the storage in  
the factory as well as with the user, as well as for the  
transport. Moreover each thickness requires another  
file, which requires a stock, composed of files of a  
25 different thickness.

The quality of the connection between the connecting  
pieces and the said edges can be difficulty controlled  
with the known embodiments, on account of the fact that  
30 the connections are realised with glue and such control  
is only possible in a destructive way, whereupon the  
file cannot be used anymore.

The present invention aims therefore at excluding the  
35 above-mentioned and other disadvantages of the known

files. To this end the file according to the invention mainly consists of a front sheet and a rear sheet made of a rigid material which are connected with each other by a flexible back, and whereby at least one of the said  
5 sheets is provided with an inwardly directed flap which at its side edges is kept by means of connecting pieces at a distance of the sheet to which the flap is attached, whereby these connecting pieces are at least attached to the concerned sheet and the flap by mere mechanical  
10 connections.

In the most preferred embodiment these mechanical connections consist of mortise and tenon joints. Other connections, such as snap connections, are however not  
15 excluded.

It is clear that the file according to the invention obtains hereby the advantage that it can be assembled at the moment of its use, as a result of which the volume of  
20 the files which have to be put into store is considerably reduced.

With one file which has to be assembled, the connecting pieces of a different thickness can be supplied, in such  
25 a way that only one type of file has to be put into store instead of two or three types as was previously the case. The user can now determine himself which type of file he assembles, in other words he can choose himself the desired thickness.

30

In a preferred embodiment the said mortise and tenon joint will not only be provided, on the one hand, between the connecting pieces and, on the other hand, between the said sheet and the said flap, but likewise between the

connecting piece and the flexible link between the flap and the sheet.

In order to better show the characteristics of the invention, a preferred embodiment according to the present invention is described hereafter, as an example, and without any restrictive character whatsoever, reference being made to the accompanying drawings, in which:

10

figure 1 represents a perspective view of a file according to the invention;

figure 2 represents a top view of an unfolding of the proper file according to figure 1;

15

figure 3 represents a view of the inner side of the connecting piece which is indicated in figure 1 by F3;

20

figures 4, 5 and 6 represent cross-sectional views, according to lines IV-IV, V-V and VI-VI, respectively, in figure 3;

figure 7 represents a view according to the arrow F7 in figure 3;

25

figures 8 and 9 represent cross-sectional views at an enlarged scale, according to lines VIII-VIII and IX-IX, respectively, in figure 1, whereby these cross-sections are taken at the same spots as the ones of the figures 4 and 5 in figure 3;

figure 10 represents a cross-sectional view according to line X-X in figure 1.

30

The file 1 according to the invention mainly consists, as represented in figure 1, of a front sheet 2 and a rear sheet 3 made of a rigid material which are connected with each other by a foldable back 4, whereby in this case the rear sheet 3 is elongated by a flap 5 which is folded

35

back, which is kept at a distance of the sheet 3 by means of two connecting pieces 6.

The front sheet 2, the rear sheet 3, the back 4 and the flap 5 are preferably manufactured from a type of thick cardboard and can be provided with a covering or not, such as a smooth foil which sticks to the cardboard. As represented in figure 2 a number of folding lines 8-9 can be provided at the spot of the back 4 and the link 7 between the rear sheet 3 and the flap 5, for example in the shape of a thinning of the material, such as indentations.

As represented in figures 3 to 7 each connecting piece 6 consists of a single piece made of synthetic material, which is mainly formed from an elongated wall part 10 and of inwardly directed edges 11-12-13 which are applied at three sides thereof, which are destined to form supports for the edges of the rear sheet 3, of the link 7 and of the flap 5.

As represented in figures 8 to 10 the connecting pieces 6 are attached to the proper file by means of mechanical connections, more particularly mortise and tenon joints, in this case three connections per each connecting piece 6, namely 14-15-16.

As represented in the example, the mortise and tenon joints are not only provided, on the one hand, between the connecting pieces 6 and, on the other hand, the rear sheet 3 and the said flap 5, but likewise between the connecting pieces 6 and the link 7. More particularly three mortise and tenon joints are provided at the spot of each connecting piece 6, two mortise and tenon joints 14-15 at the spot of the free extremities of the edges 11

and 12 and a third mortise and tenon joint 16 at the spot of the said edge 13, respectively.

With a view to realise these mortise and tenon joints 14-  
5 15-16, on the one hand, tenons 18-19-20 are applied in the proper file 17, as represented in figure 2. On the other hand, corresponding mortises 21-22-23 are applied to the connecting pieces 6, which form one part with these connecting pieces 6. The tenons 21-22-23 are  
10 situated at the inner side of the edges 11-12-13, preferably at the spot of the protruding lips 24-25-26 applied to that end.

The tenons 21-22-23 are preferably of a circular shape  
15 and show a length which corresponds with the thickness of the material from which the proper file 17 is made. The diameter of the tenons 21-22-23 preferably corresponds with the one of the mortises 18-19-20 or is even a little greater, in such a way that during the assembly a  
20 clamping effect is obtained.

As is made clear in the figures 3, 8 and 10, the file 1 can be provided with a lock 27 which prevents that the mortise and tenon joints 14-15-16 become loose. To this  
25 end parts 28 which can be folded inwardly are applied to the connecting pieces 6 which can place themselves between the concerned sheet, in this case the rear sheet 3, and the flap 5, in such a way that they cannot move anymore towards each other, and consequently they cannot  
30 become loose from the tenons 21-22. By the fact that the mortise and tenon joints 14-15 cannot be severed anymore, it is hereby also obtained that the connecting pieces 6 cannot slide away laterally with respect to the proper file 17, with as a result that also the mortise and tenon  
35 joints 16 cannot become loose anymore.

The parts 28 form one part with the connecting pieces 6 and are foldable at one edge by means of a weakening in the material 29.

5

As represented with axis 30 in figure 8, the tenons 21 and 22 can possibly be made longer than the thickness of the material of the proper file 17, with as a result that the part 28 can be clamped more or less behind the tenons 10 21-22 and consequently can rebound only a little or cannot rebound at all.

It is clear that according to a variant a flap 5 can also be present at the front sheet 2. It is also not excluded 15 to attach a flap 5 to the front sheet 2 as well as to the rear sheet 3 by means of connecting pieces 6.

The assembly of the file 1 can simply be deduced from the figures. In the first instance the flap 5 must be 20 brought completely inwardly till against the rear sheet 3. Subsequently the connecting pieces 6 are applied and firstly a mortise and tenon joint 16 is realised. Subsequently, by pushing the flap 5 and the rear sheet 3 away from each other the mortise and tenon joints 14-15 25 can be realised, whereupon the unit can be locked by means of the said parts 28.

It is observed that the tenons 21-22-23 can have several shapes. According to the invention they can also consist 30 of local protuberances of the material. The said mortises 18-19-20 must neither be on-going mortises.

The present invention is in no way limited to the embodiment described above and represented in the 35 drawings, but such file can be realised in different

shapes and dimensions, without leaving the scope of the invention.

**WHAT IS CLAIMED IS:**

1. File consisting of a front sheet (2) and a rear sheet (3) made of rigid material which are connected to each other by a flexible back (4), and wherein at last one of the sheets (2-3) is provided with an inwardly directed flap (5) which is kept at its side edges by means of connecting pieces (6) at a distance from said one sheet to which this flap (5) is attached, characterized in that the connecting pieces (6) are at least attached to said one sheet (2-3) and the flap (5) by means of mere mechanical connections, and in that the connections consist of mortise and tenon joints (14-15-16).
- 10 2. File according to claim 1, characterized in that the mortise and tenon joints (14-15-16) are not only provided, on the one hand, between the connecting pieces (6) and said one sheet, and likewise the said flap (5) but, on the other hand, also between the connecting pieces (6) and a foldable link (7) which is situated between the flap (5) and said one sheet.
3. File according to claim 1 or 2, characterized in that the mortise and the tenon joints (14-15-16) are formed by mortises (18-19-20) in the file (17) and by tenons (21-22-23) which form one part with the connecting pieces (6).
- 20 4. File according to claim 3, characterized in that the connecting pieces (6) mainly consist of an elongated wall part (10) with inwardly directed edges (11-12-13), wherein the tenons (21-22-23) of the mortise and tenon joints (14-15-16) are situated at the inner side of the inwardly directed edges (11-12-13), on protruding lips (24-25-26), which are situated in the plane of the inwardly directed edges (11-12-13).
5. File according to claim 4, characterized in that at each connecting piece (6) exactly three mortise and tenon joints (14-15-16) are present, two mortise and tenon joints (14-15) near the free extremities of the edges (11-12), which are meant to co-operate with the said one sheet and the flap (5) and the third

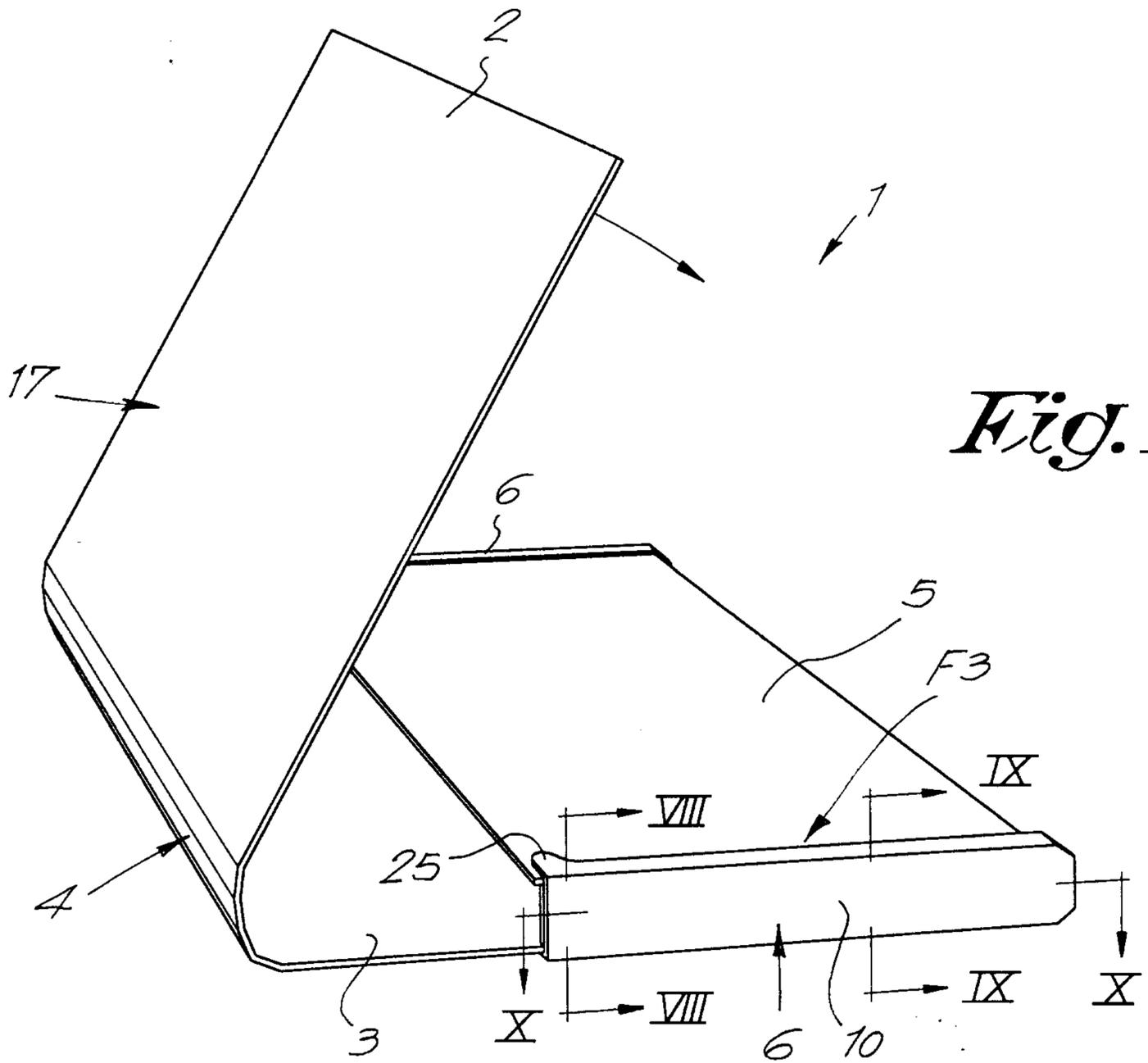
mortise and tenon joints (16) at the spot of the edge (13) which is meant to cooperate with the link (7) which is situated between the flap (5) and said one sheet, respectively.

6. File according to claim 4 or 5, characterized in that said file is provided with locks (27) which avoid that the mortise and tenon joints (14-15-16) can become loose.

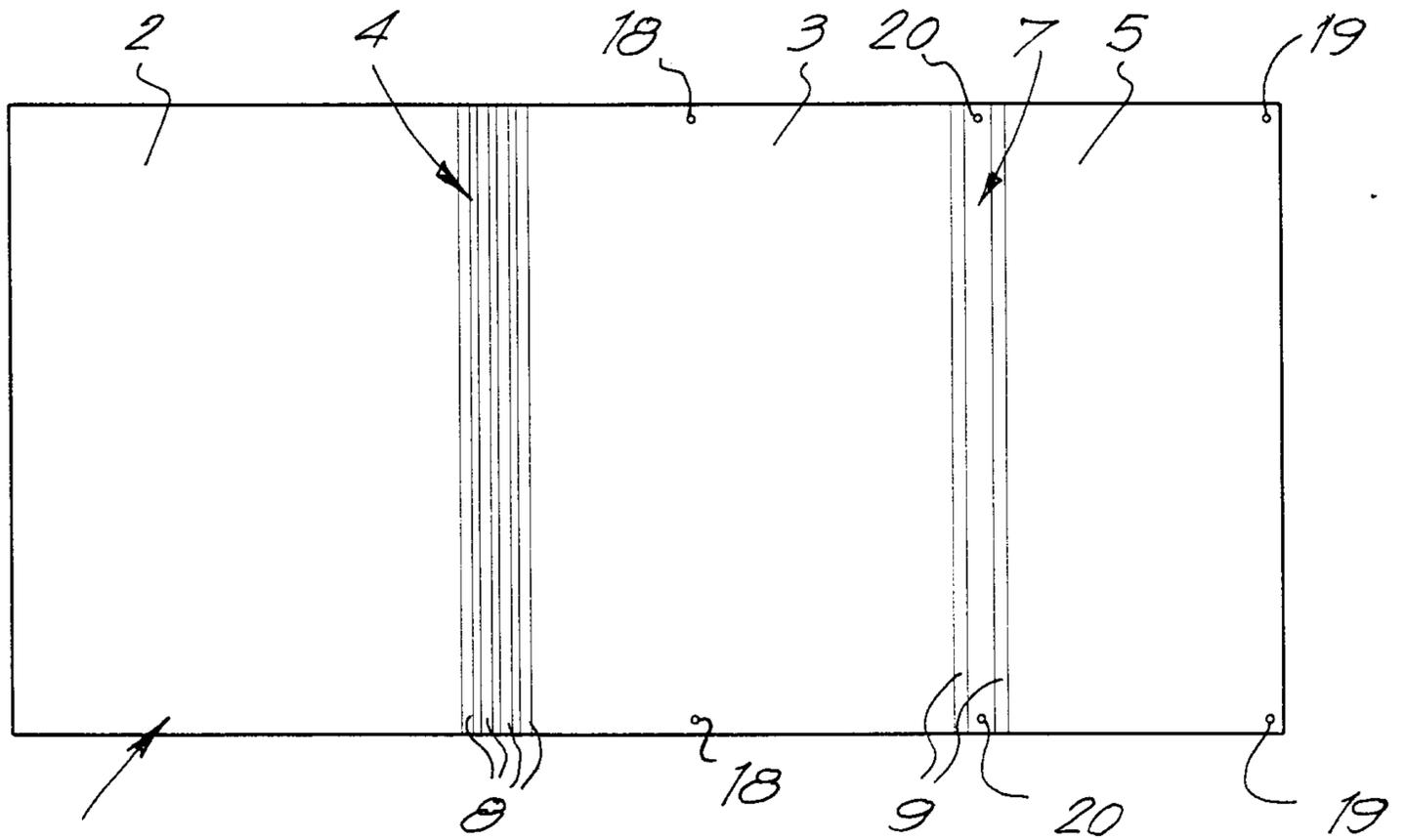
7. File according to claim 6, characterized in that the locks (27) are formed by parts (28) applied to the connecting pieces (6) which can be brought inwardly and in this way keep said one sheet and the flap (5) separate from each other.

10 8. File according to any one of the claims 1 to 7, characterized in that the mortise and tenon joints (14-15-16) are formed by tenons (21-22-23) which exactly or in a clamping way fit the matching mortises (18-19-20).

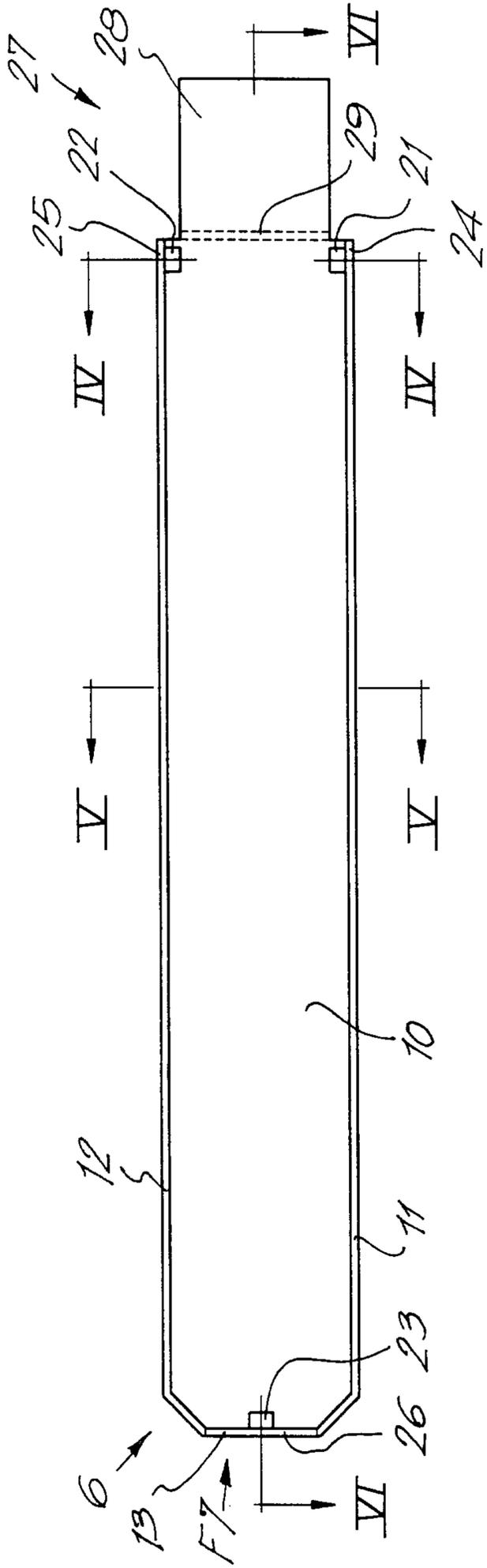
9. File according to any one of the claims 1 to 8, characterized in that the length of the tenons (21-22-23) corresponds with the thickness of the material of which the said sheets (2-3) and the flap (5) are made.



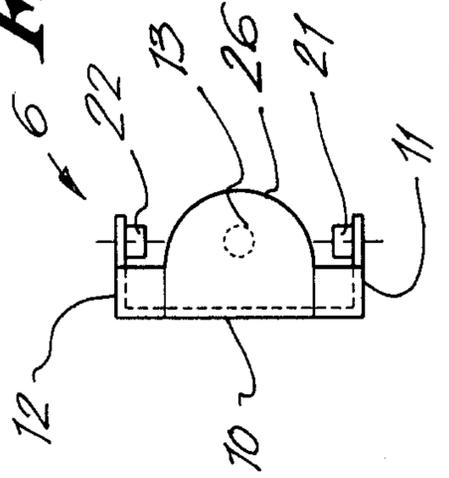
*Fig. 1*



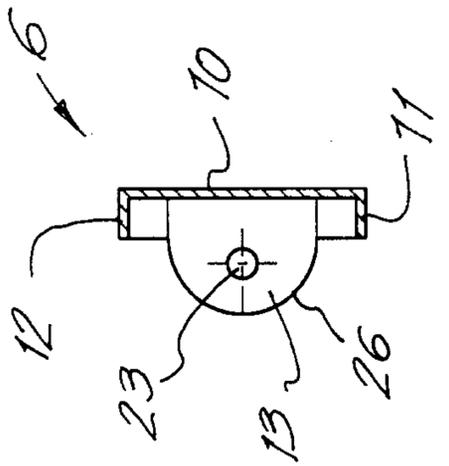
*Fig. 2*



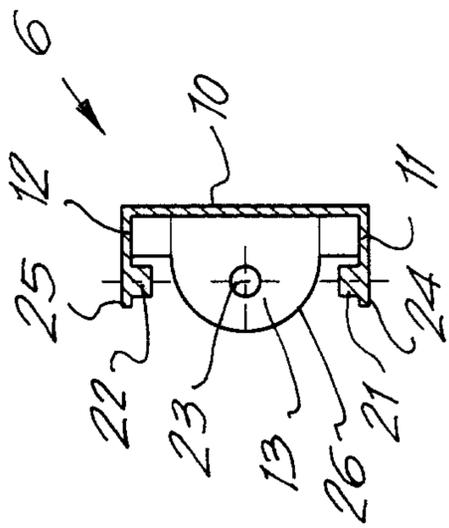
**Fig. 3**



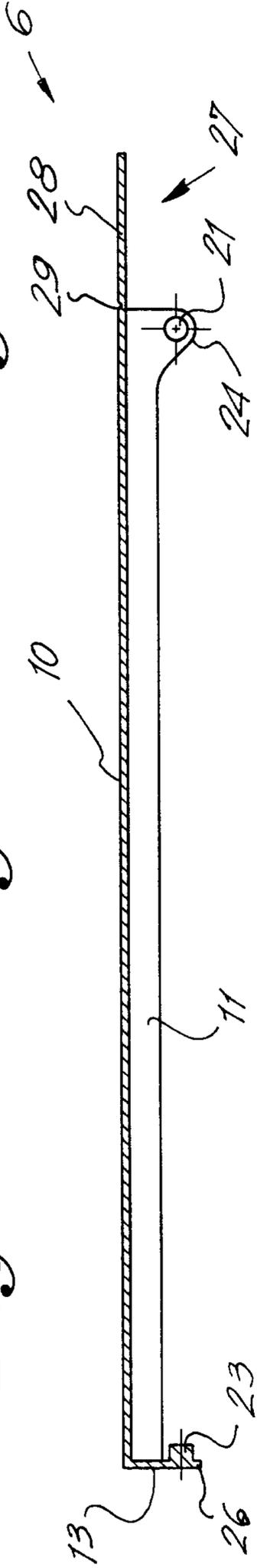
**Fig. 7**



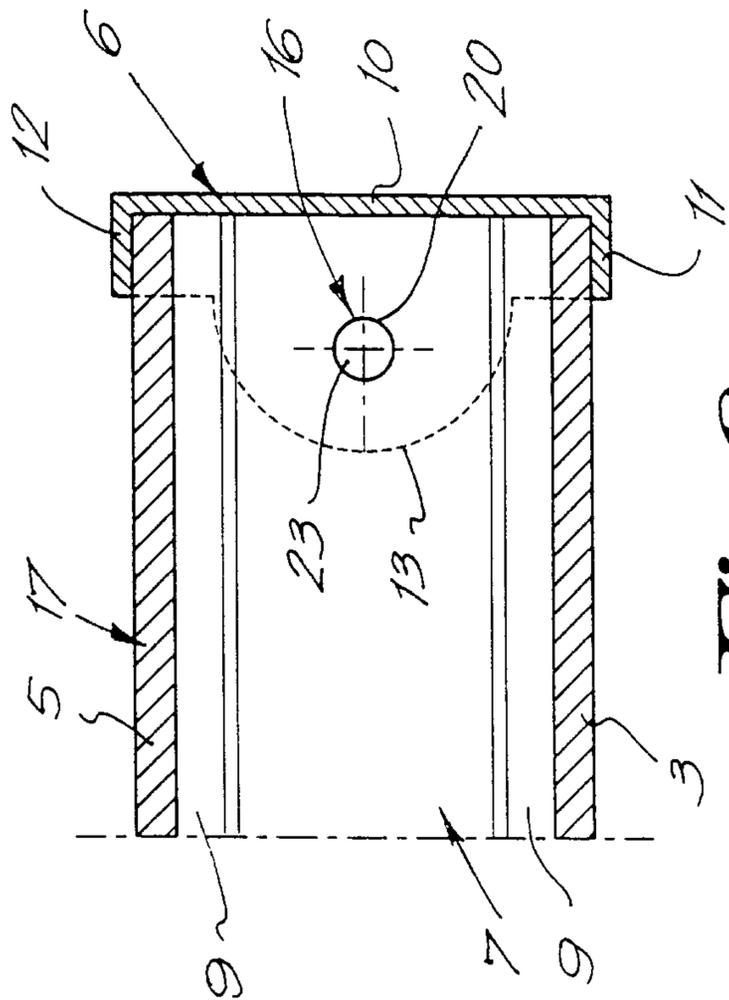
**Fig. 5**



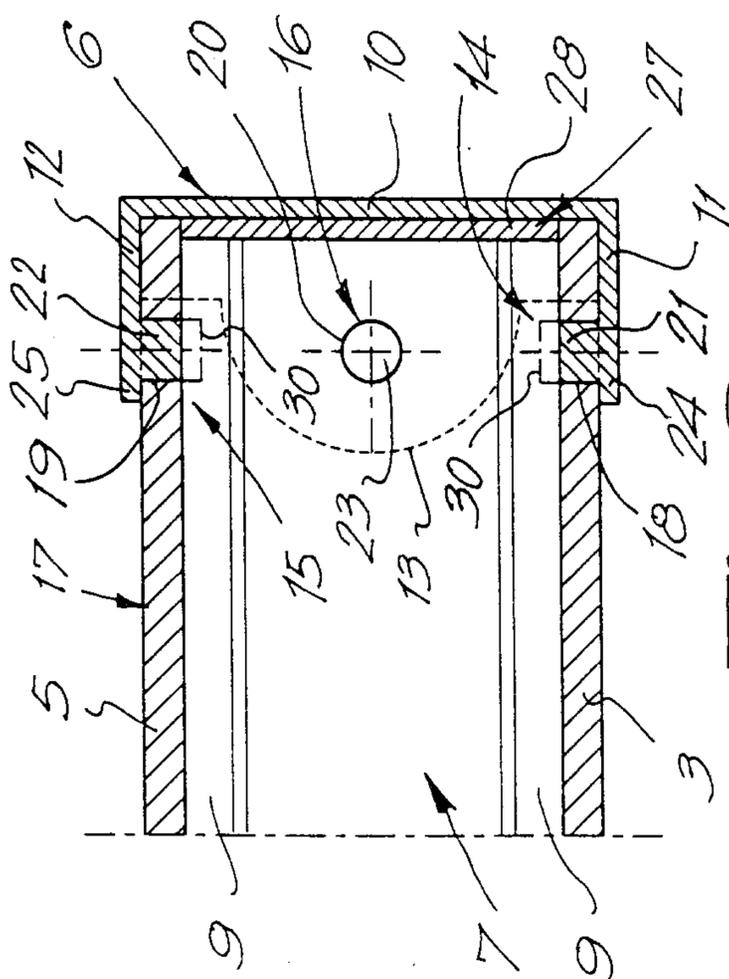
**Fig. 4**



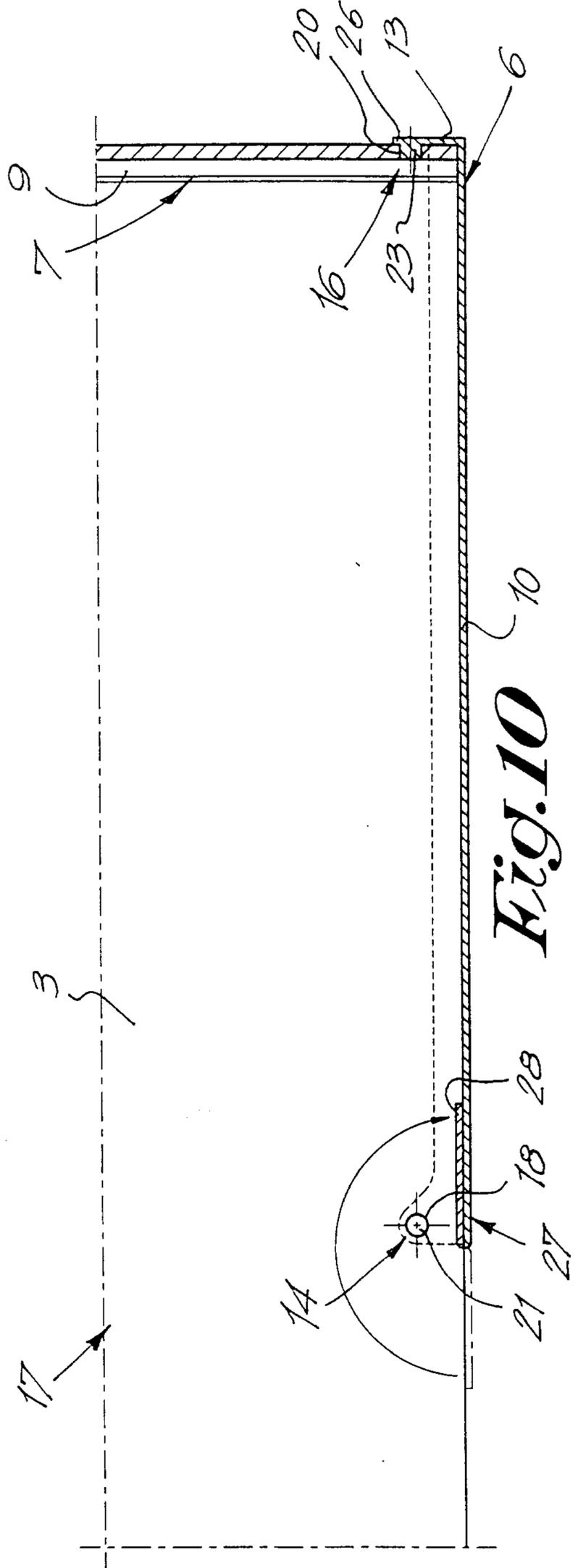
**Fig. 6**



**Fig. 9**



**Fig. 8**



**Fig. 10**

