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(54) **Door, suitable for furniture, with decorative elements**

(57) Wing for furniture of various kind and the like for inhabited buildings, comprising the combination of support elements (11, 23) applied in a hinged manner to the relative furniture, furniture element, furnishings etc... by

means of hinges (14) or similar hinging elements, and decorative outer elements (12) having the desired shape and appearance of the wing, which are joined frontally to said support elements (11, 23).

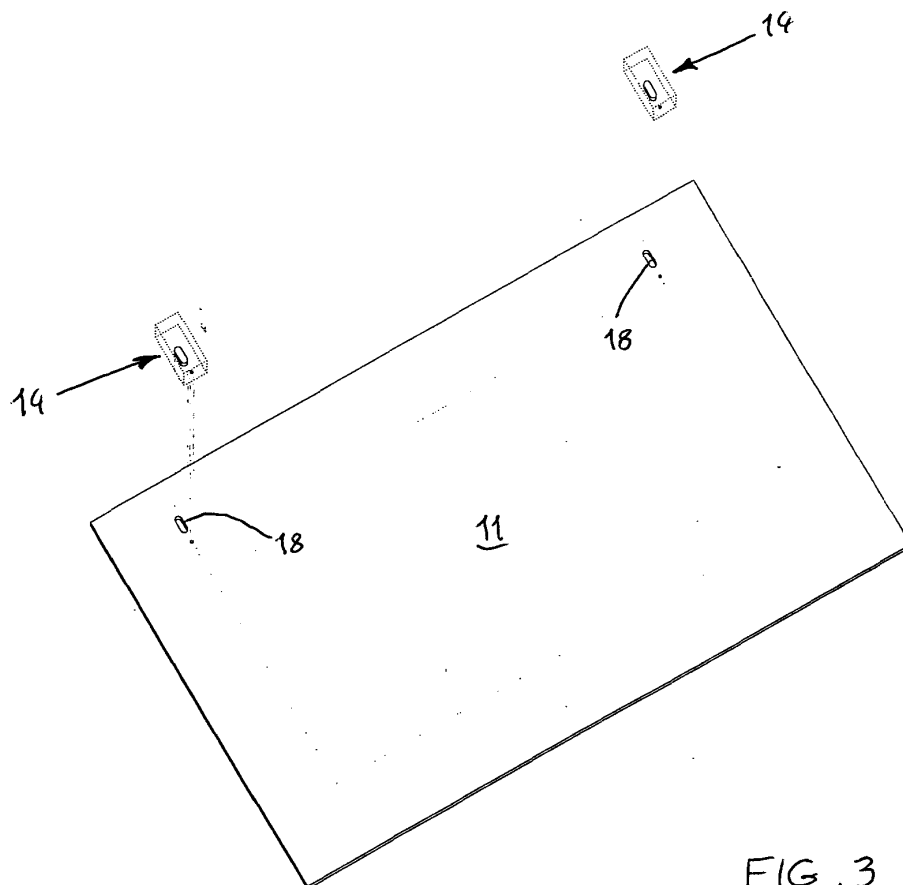


FIG. 3

Description

[0001] The invention relates to a wing for furniture of various kind and the like for inhabited buildings, in particular for kitchens, bathrooms and rooms, which is made with a different structure and simple construction.

[0002] The present wings for furniture of various kind and the like for inhabited buildings are constituted substantially by a set of stanchions and peripheral crosspieces joined with one or more vertical central panels made of wooden materials or solid materials of various kind, to which some handles, hanging elements and the like are fixed, and by elements for fixing to the furniture which are fixed by screws, and require firstly the manufacture of these single components separated from each other, which must be realized with considerable thicknesses for ensuring the needed sturdiness and mechanical strength of the wings, and then the reciprocal assembling of these components, with a series of different assembling steps, which require long manufacturing times and to employ considerable labour and complex machinery, making expensive such wings.

[0003] The object of the present invention is to realize a wing for furniture of various kind and the like for inhabited buildings, in particular for kitchens, bathrooms and rooms, in a different manner and with a constructive structure simpler than the present one, which gives no more rise to the above mentioned inconveniences, still ensuring always the needed sturdiness and mechanical strength, and which improves the inhabitable comfort and provides a longer life duration.

[0004] This wing is made with the constructive characteristics substantially described, with particular reference to the enclosed claims of the present patent.

[0005] The present invention will be better understood from the following description, given by way of a not limiting example only, and with reference to the accompanying drawings, wherein :

- Fig. 1 shows a front view of a component part of a wing for furniture according to the invention, in a first embodiment thereof ;
- Fig. 2 shows a side view of the wing component part of Fig. 1 ;
- Fig. 3 shows a perspective front view of the wing component part of Fig. 1, with the components employed for being applied into position ;
- Figs. 4 and 5 show a respective front and plan view of one of the components employed for applying into position the wing component part of Fig. 1 ;
- Fig. 6 shows a side view of a constructive item of the wing component part of Fig. 1 and the component of Figs. 4 and 5 ;
- Fig. 7 shows a side view of the wing for furniture according to the invention, with its component parts assembled to each other ;
- Fig. 8 shows a front view of a component part of the wing for furniture according to the invention, in a sec-

ond embodiment thereof ;

- Fig. 9 shows a perspective front view of the wing component part of Fig. 8, with the components employed for being applied into position ;
- Figs. 10 and 11 show a respective front and plan view of one of the components employed for applying into position the wing component part of Fig. 8 ;
- Fig. 12 shows a perspective front view of a wing component part according to the invention, in a further embodiment thereof.

[0006] In the above Figures, it is represented a wing 10 for furniture of various kind and the like for inhabited buildings, in particular for kitchens, bathrooms and rooms, adapted to be mounted into furniture, furniture elements, furnishings and the like.

[0007] Such wing is substantially formed by at least a flat plate 11 made of metal, and particularly but not exclusively of aluminium, or by plastic material, wooden material or rigid material having high sturdiness and mechanical strength, reduced thickness and the desired shape, in the inner surface of which there are applied some elements for fixing and supporting such plate on to the relative furniture, furniture element, furnishings and the like, which will be better explained later on, while on to the vertical outer surface of such rigid plate it is applied easily and quickly, by per se known means such as for example adhesive material, screws, bolts, rivets and the like, a covering panel 12 having the desired thickness and shape and the required appearance of the wing, which is manufactured separately from the plate 11 and made with the preferred decorative material such as for example wood, glass, plastic, etc..., in order to decorate the wing 10 and consequently the furniture, furniture element, furnishings etc.. to which it is assembled, and if needed on the front part of such panel there may be also applied one or more handles (not indicated) for being caught by the persons, and also any other possible decorative or functional elements.

[0008] In order to be able to fix said wing 10 to any kind of furniture, furniture element, furnishings etc.. being on sale, the utilized fixing and supporting elements may be of various types, such as for example commonly used hinges 14 adequately modified as described hereinafter, or other elements of traditional kind. In the example illustrated of the hinges (see Figs. 4 and 5), each one of them is constituted advantageously by two flat plates 15 and 16 articulated to each other, of which the plate 15 is fixed to the furniture, furniture element, furnishings etc... with fixing elements of traditional type, while the plate 16 is provided with a projected anchorage pin 17 which is inserted through a corresponding through slot 18 provided on to the rigid flat plate 11 and stuck into this position. Thanks to the hinges 14, the rigid flat plate 11 is so supported by the relative furniture, furniture element, furnishings etc... and may be displaced with respect to these latter from the one to the other one of its open and closed positions, together with its covering panel 12, and the

hinges are also dimensioned for supporting the entire weight of the so realized wing, thereby eliminating the risk of undesired bendings of the same wing.

[0009] In the Figures there are shown by way of example several ways for applying the flat plate 11 to the relative furniture, furniture element, furnishings etc...

[0010] In the Figs. 1 and 3 it is noted that the hinges 14 are fixed to the flat plate 11 also with an additional hole 19, into which the fixing screws, rivets and the like etc...(not indicated) are inserted, which are inserted also through corresponding holes 20 of the flat plate 11, while in the Figs. 2 and 6 it is noted the fixing of the hinge through the relative through slot 18, as described above.

[0011] In the Figs. 10 and 11 it is noted a hinge 14 made without projected pin 17 and provided with a flat plate 16 having two through holes 21 for inserting some screws, bolts, rivets and the like (not indicated) through there and corresponding holes 22 provided through the flat plate 11 (see Figs. 8 and 9). Finally, in the Fig. 12 it is noted a supporting plate 23, having a different shape, which in this case is curved instead of being flat as previously, and which may be obviously made also with shapes different than those indicated solely by way of example, thus without departing from the protection sphere of the present invention.

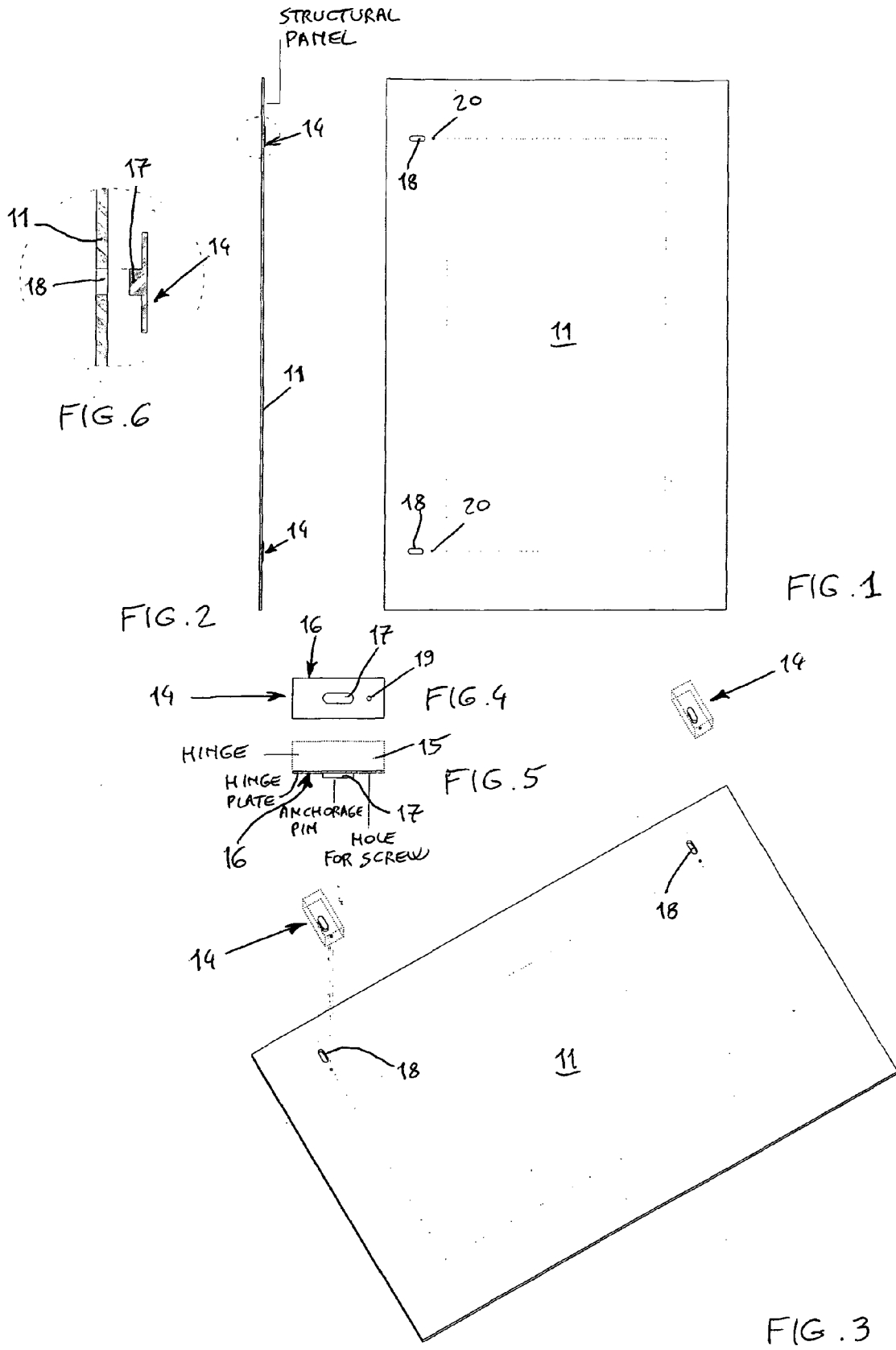
[0012] The wing realized with the combination of at least a plate 11 or 23, made with reduced thickness and fixable in a simple and quick manner to the relative furniture, furniture element, furnishings and the like, and of at least an outer covering panel 12 therefore involves considerable advantages in term of simpler working steps and shorter times for manufacturing and assembling and/or replacing the furniture wings, still ensuring always the needed sturdiness and mechanical strength of the so obtained wings.

chanical strenght, having reduced thickness and the desired shape, on the inner surface of which there are applied said hinges (14) or similar hinging elements, and on the outer surface of which there are applied said decorative elements (12).

3. Wing according to claim 2, **characterized in that** said rigid plate is made like a flat plate (11) or a curved plate (23) or a plate with a different shape.
4. Wing according to claim 3, **characterized in that** said decorative elements comprise at least a covering panel (12) having the desired thickness and shape, and the required appearance of the wing, and made separately from said plate (11, 23), with the preferred decorative material such as for example wood, glass, plastic etc...
5. Wing according to claim 4, **characterized in that** said hinge (14) is of traditional type and shaped in a way to be coupled with corresponding through slots (18) and/or holes (19) of said plate (11, 23), with the possible aid of further fixing elements and/or bonding agents of traditional type.

Claims

1. Wing for furniture of various kind and the like for inhabited buildings, in particular for kitchens, bathrooms and rooms, adapted to be displaced from the one to the other one of the opened and closed positions thereof with respect to the relative furniture, furniture element, furnishings, etc..., **characterized by** the combination of support elements (11, 23) applied in a hinged manner to the relative furniture, furniture element, furnishings, etc.. by means of hinges (14) or similar hinging elements, and decorative outer elements (12) having the desired shape and appearance of the wing, which are joined frontally to said support elements (11, 23).
2. Wing according to claim 1, **characterized in that** said support elements comprise at least a rigid plate (11, 23) made of metal, and particularly but not exclusively aluminium, or plastic material, wooden material or rigid material with high sturdiness and me-



DECORATIVE
PANEL ACTING
AS STRUCTURAL
AIDING
ELEMENT

STRUCTURAL
PANEL

FIG. 7

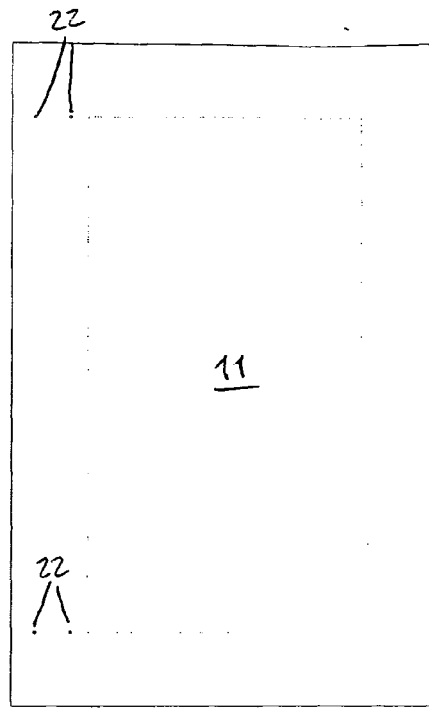
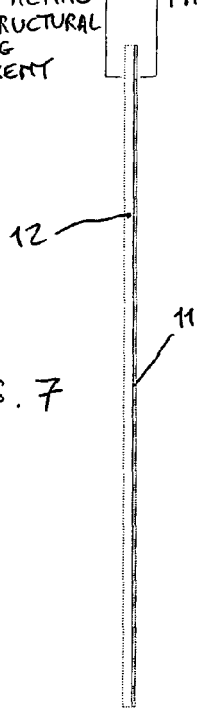


FIG. 8

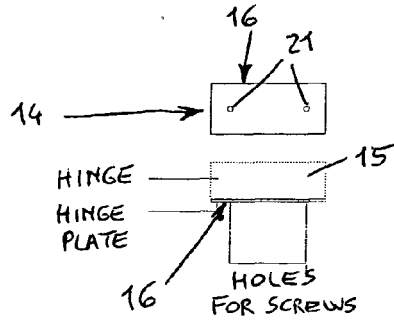


FIG. 10

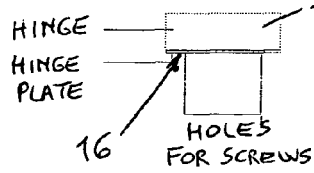


FIG. 11



FIG. 9



EUROPEAN SEARCH REPORT

Application Number
EP 10 00 0299

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	FR 2 582 204 A1 (PIERROT) 28 November 1986 (1986-11-28) * the whole document *	1-5	INV. A47B96/20
X	DE 199 12 711 A1 (HOERNLEIN REINHARD GMBH) 21 September 2000 (2000-09-21) * the whole document *	1-5	
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			TECHNICAL FIELDS SEARCHED (IPC)
			A47B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 23 August 2010	Examiner Linden, Stefan
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 00 0299

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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23-08-2010

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82