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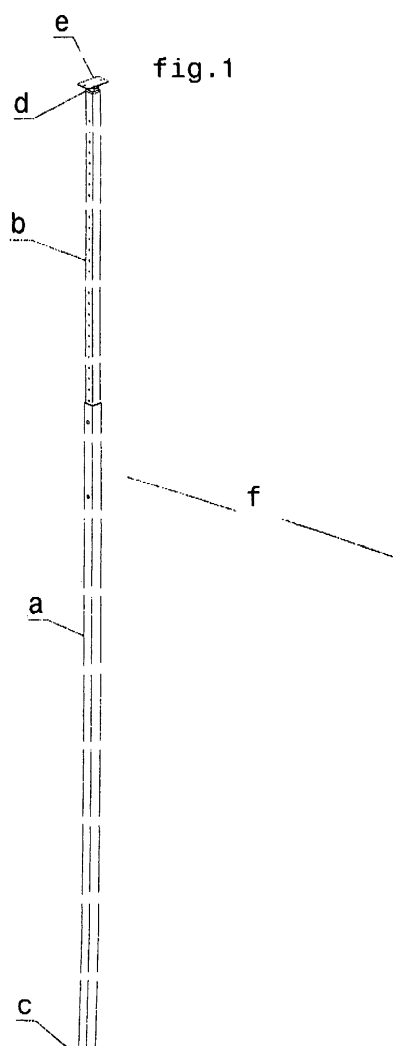
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(54) **Modular system for wall cupboard, which does not require framework inside to the recess where it is positioned, adaptable to any measure superior to 30 centimeters**

(57) The modular system for wall cupboard the subject of the present application allows, through telescopic uprights (A) fixed with floor and ceiling, special little doors (B) that can be stretched singly up to 5 centimeters, special stirrups (C) that allow the anchorage of the doors (B) at the telescopic upright (A), superior and inferior tailpieces and central slamming stile (D), they also anchored to the uprights through special hookups, to enclose any width above to 30 centimeters.

Said system, extremely versatile in the modularity of its components, wants to represent the evolution of the wall cupboard .inasmuch it allows their assemblage without an inside framework, a structure normally necessary for the realization of the same wall cupboards.



Description

[0001] Traditionally the wall cupboard are constructed "to-misure", starting from the measures of the recess to be enclosed and purpose-building framework, little doors and finishing elements.

[0002] The costs for the design, the building and the laying of the components determine an economically notable investment, mainly taking into account the unique use of the to-misure product.

[0003] It is difficult, if not impossible, to succeed in re-using a wall cupboard constructed to-misure for a certain type of recess and in readapting it to other solutions: accordingly in the greatest part of the cases the work is abandoned inside the residence in case of removals also.

[0004] The modular system the subject of the present application is composed by parts able to be modulated, adaptable to any situation or necessity. None of the parts is realized to-misure, no additional cost has to be sustained for design or laying through specialized personnel.

[0005] Besides the components can be pull down and reused to compose other solutions, making the investment durable in the time and always adaptable to one's own requirements.

[0006] The used materials are iron, aluminium and steel for the uprights and the hookups; wood, materials composed of wood and plastics for the little doors and the decorative elements.

[0007] The modular system for wall cupboard, represented in its combination of elements by Table 1, whose novelty consists in the fact that it does not need a fixed and "to-misure" inside framework of support, and it is composed through the combination of the following elements:

telescopic upright (A); little doors that can be stretched (B); stirrups-hinges for supporting (C); tailpieces for trimming and central slimming stile (D).

[0008] The telescopic upright (A) shown in Table 2 is composed of the following elements:

an upper upright (a) supported and fixed to the base by a pin (c) through rawlplugs;
an lower upper upright (b) height-adjustable via a series of holes, inside the lower upright (a) and hitched to the same through telescopic screws (f); it is attached to the ceiling with screws and rawlplugs through the plate assembled on the cap (d).

[0009] The telescopic upright is the bearing element of the structure, to which are linked all other components of the modular system (little doors, stirrups for supporting, tailpieces) and is height-adjustable to suit any type of surface to be enclosed (maximum height 3 meters approx.)

[0010] The little door (B) that can be stretched, represented in Table 3, consists of: a fixed body (f), an adjust-

able body (g), hinges (h) secured to the fixed body, a door-handle (i) secured to the adjustable body of the little door.

[0011] By loosening the screws of the holes placed between the fixed body (f) and the adjustable body (g), it is possible to enlarge each little door with pinpoint precision up to 5 centimeters.

[0012] The little door is attached to the upright through the stirrup-hinge (figure 4) and it is provided in different combinations of heights and widths, to allow maximum adaptability and any size of area to be enclosed.

[0013] The stirrup-hinge, shown at Table 4, figure 3, consists of: a stirrup-base (j) to which the hinge-base (m) is assembled.

[0014] The corresponding hinges already prepared on the little doors will be hooked on the hinge-base (m). The hinge-base (m) pre-assembled on the stirrup-base (j) is anchored to the upright at the desired height through the mounting stirrup (k) and secured with nuts and bolts (figure 4).

[0015] The uniqueness of the stirrup-hinge is that stirrups or hinges for upright exist on the market but not a device fulfilling both functions.

[0016] Tailpieces as from Table 5, in Figure 5, are the finishing element of the modular system. They are fixed to the uprights with bolts through the hooks (m), which slide into the slot (n) placed on the tailpieces and are tightened to the uprights (a) through little bolts (p), as from Figure 7. Being manufactured in different heights, the tailpieces can be overlayed to one another according to the system described above in order to maximize the versatility of the system (figure 8).

[0017] Hereinafter, the description of the assembly of the modular system the subject of this application.

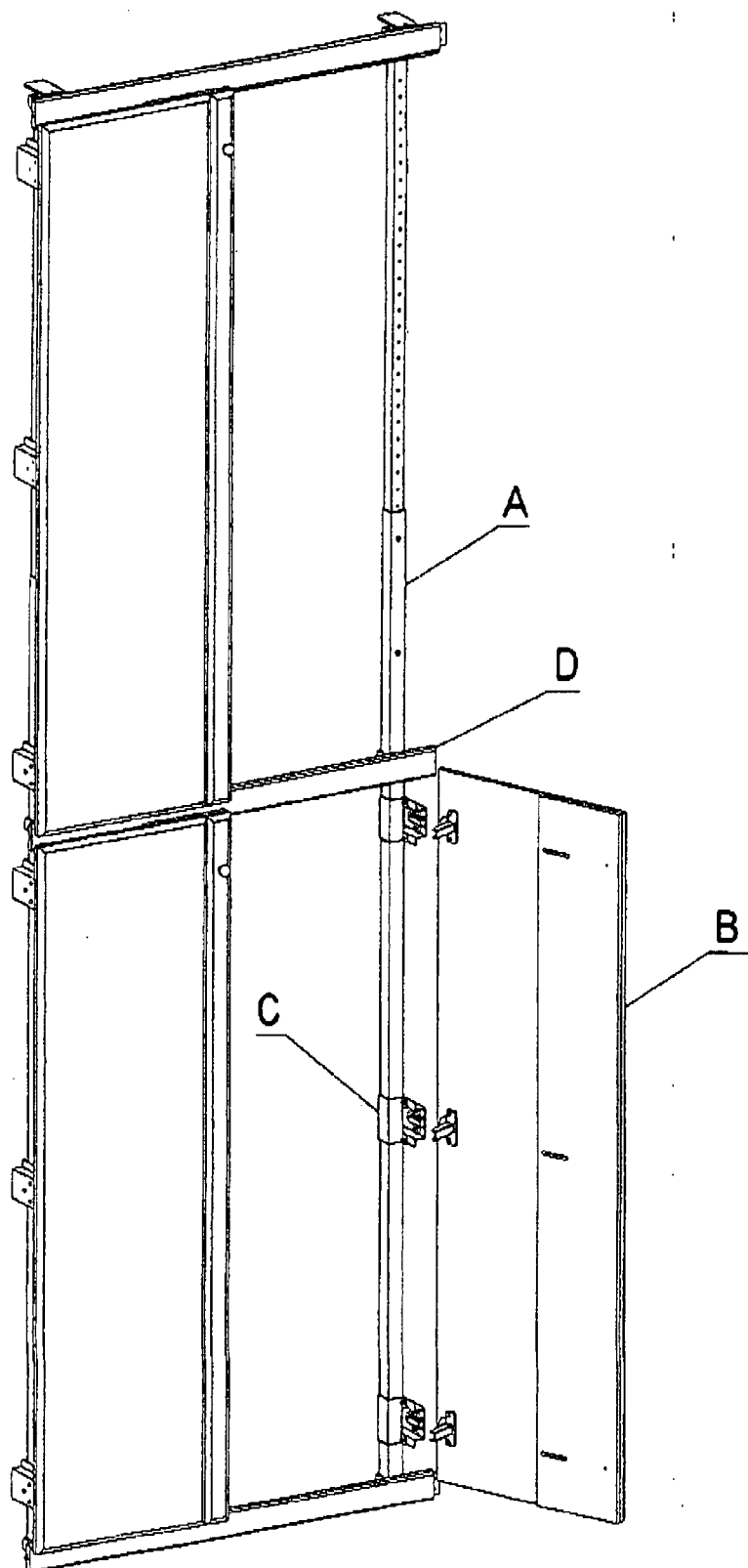
- to take the measurements of the space in which the modular system will have to be placed
- to decide how many little doors (B) in width and height are to be assembled according to the available measures and taking into account to fill all the spaces by enlarging the same and with the transverse tailpieces (D). each column of little door (vertical direction) will need one upright (A);
- to place feet (c) on the ground and plate (e) with the ceiling;
- under the length of the recess, to adjust length of the upright (A) by sliding the upper upright (b) inside the lower upright (a) until the desired extent, and to fix them through two telescopic screws inserted into two matching holes in the same uprights;
- by unscrewing the bolt of the cap (b) and making it stay within the ceiling plate (e), the upright is placed under tension;

- to cut to size the transverse tailpieces (m) to be used as bottom rail, central rail and upper rail, and to fix them to the lateral uprights (A) through the appropriate hookups (m); to screw hookups (m) to the tailpieces (D) for obtaining a greater robustness of the structure; 5
- if necessary, to enlarge the little doors (B) to the extent established; 10
- to screw hinges (h) to the little doors in the appropriate locations;
- to fix the stirrup-bases (j) to the uprights (A) at the necessary heights, by using the mounting stirrups (k), which have to be screwed with nuts on the stud of the same stirrup-bases; 15
- to anchor the little doors (B) to the stirrup-bases (C) by hinges (h) previously assembled. 20

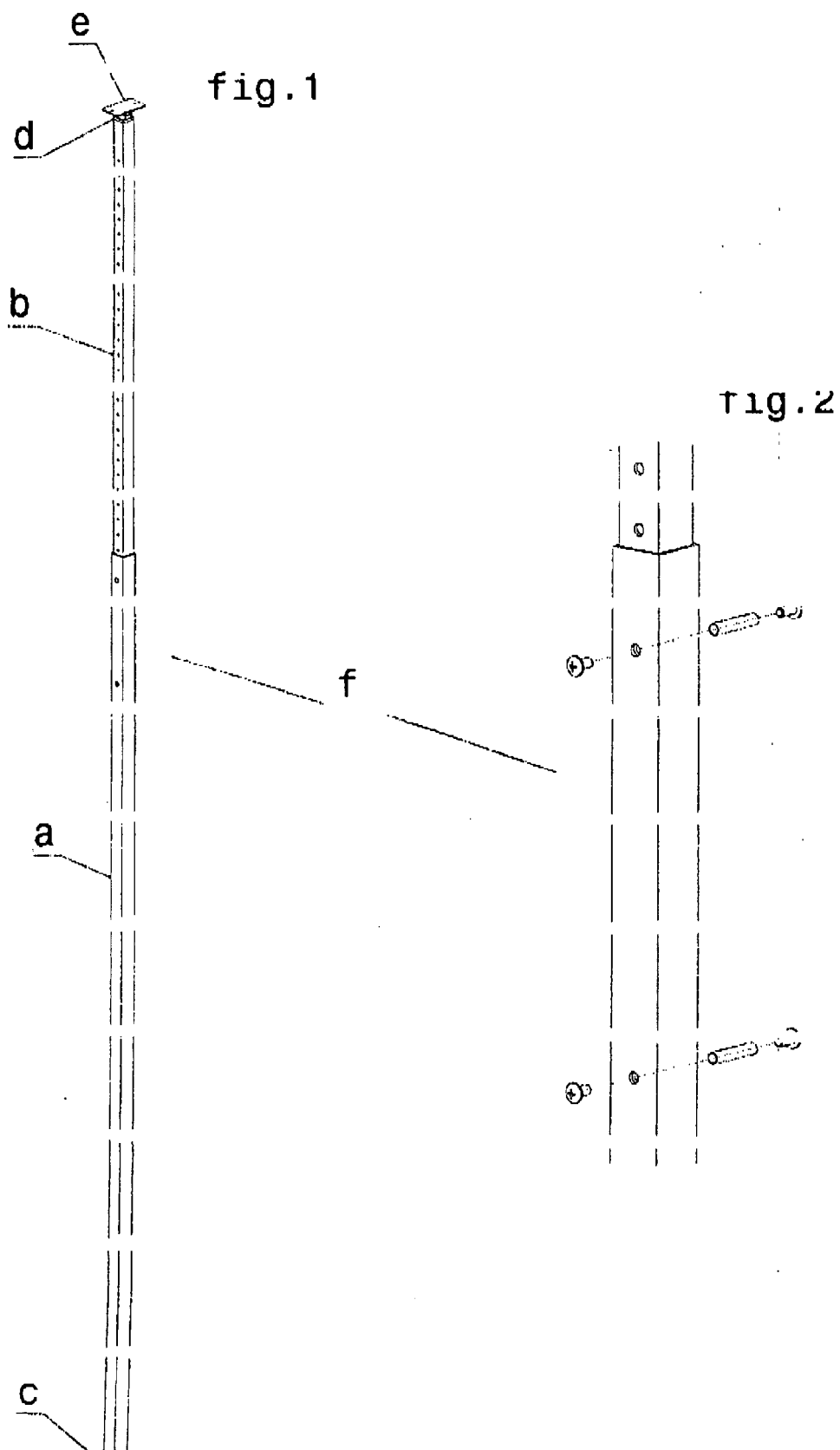
Claims

1. Modular system for a wall cupboard that includes the assembly of telescopic uprights, stretchable little doors, stirrups-hinges for supporting and tailpieces for trimming apt to enclose widths exceeding 30 centimeters and heights exceeding 50 centimeters. 25
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2. Modular system according to claim 1, **characterized by** the fact that the telescopic upright is the bearing framework of the cupboard and replaces the normal function of the inside framework to-misure. 35
3. Modular system according to claim 1, **characterized by** little doors that can be stretched through a system of plates with holes and bushing plates. 40
4. Modular system according to claim 1, **characterized in that** the stirrup hitched to the upright and the hinge for the opening of the little doors are assembled into one only piece called stirrup-hinge. 45
5. Modular system according to claim 1, **characterized by** the fact that the tailpieces can be overlayed to one another through the use of special hookups. 50
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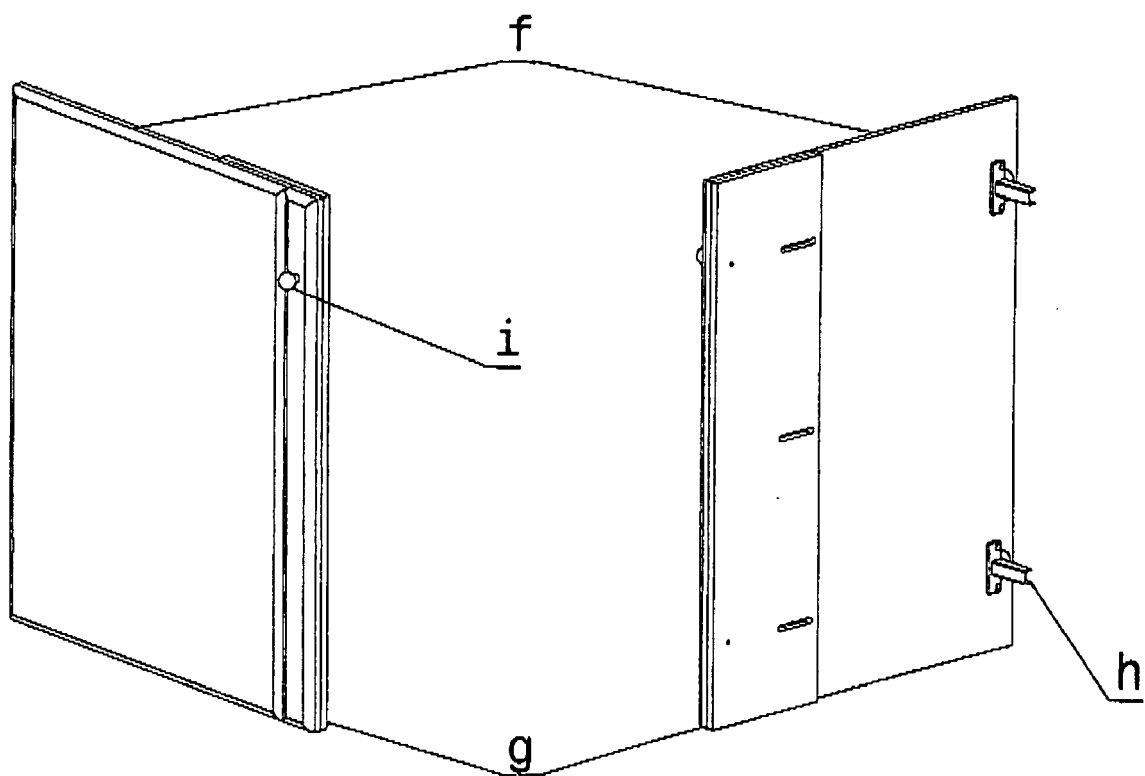
Tav. 1



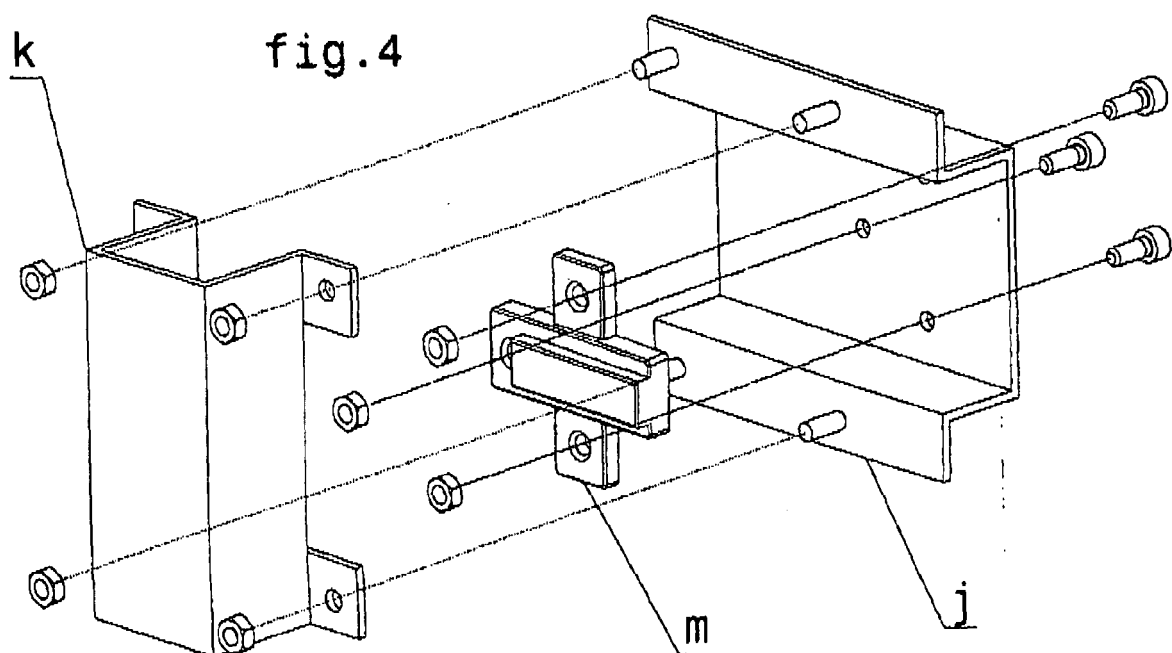
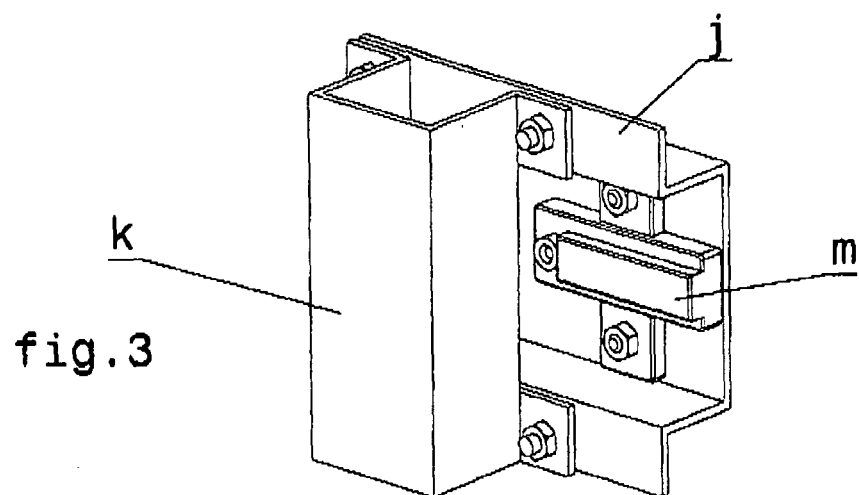
Tav.2



Tav.3



Tav.4



Tav.5

