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(54) **Coplanar door with pushing opening device, with led enlightening under door and door handle with integrated patch**

(57) The finding consists in an inner coplanar door with pushing opening device instead of the pulling one, door handle with integrated patch key and/or door latch and le lightened under door.

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Description

[0001] Of the finding named "coplanar door with pushing opening device, with led enlightening under door and door handle with integrated patch" object of the European patent application by name of Pail Serramenti Sri, whose registered office is Contrada Saletti - Atesa (CH) - Italy, VAT Number 01347100693.

Technical field where the finding refers to

[0002] The object of the privatize application is a product which refers to the shutters and inner window and doors frames field.

Pre-existing technical state and problems to be solved

[0003]

1) All knocking doors are opened by pulling them, wall side, in respect to whom there is coplanarity with the ledge.

The opening is placed in correspondence to the wall side in respect to whom the door shutter is flash mounted (coplanarity), in fact the door shutter going to stroke the doorpost, cannot rotate and therefore open on the opposite side in respect to that where are positioned the pivots.

2) The door handle, moreover, have an encumbered of about six centimetres in respect to the door flash and the key patch or door latch is an element aside from the same door handle.

3) Nowadays doors don't have any enlightening device, not even partial, as their only function is to delimit a room with another one.

Proposed solution and advantages achieved

[0004]

1) The finding object of the herewith application gives a technical solution to the problem stated at position no. 1 of the technical state, by realizing a door that, though it is coplanar with the wall, it is able to push instead of pull, without occupying the external space of the entering room, that is often narrow (i.e. disengagement, corridor). The solution is achieved by the creation of an at sight doorpost which contains a surmounting element realized "ad hoc" (see tab no. 1), and door frames (c.d. door frame TF) hooked with a particular device showed in tab no.2,7,8,10, which is not only able to accomplish the aesthetic function, but also the door closing. Also the door profile is well realised (see tab no. 2,7,8,10) so that it can allow the perfect coplanarity by pushing it and not by pulling it. The door shutter is fixed on the frame by means of three hiding and adjustable pivots.

2) The door handle, object of the herewith finding,

being realised with a particular profile and with metallic material (see tab. no. 1,5,6,8,9), is reduced in space in comparison to the average of what offered nowadays, so that it is more comfortable to use in narrow and cumbersome spaces (i.e. disengagement, corridor) and it presents the key or the door latch integrated with the same door handle, by making easier its installation.

3) The finding object of the herewith application present in the inferior base a led lightening system by the insertion of a system of coloured led, by giving the comfort of a partial and not aggressive lightening of the environment in which the door let us enter (see tab. no.3,4).

Industrial accomplishment

[0005] The finding object of the herewith patent application can be industrially manufactured in the field of the production of shutters and inner window and doors frames.

Abstract

[0006] The finding consists in an inner coplanar door with pushing opening device instead of the pulling one, door handle with integrated patch key and/or door latch and le lightened under door.

Claims

1. Coplanarity of the door to "push" instead of to "pull" to be intended as original principle, and elements with whom it is composed, therefore doorpost, overlapped element, and door frame and shutter, as per technical patterns;
2. Integration of the door handle with the patch of the door key and /or door latch, to be intended as original principle, and reduced encumbrance of the same one, to be intended as original principle, as well as elements with whom it is composed as per technical patterns;
3. Enlightening and not over lighted capability of the under door, to be intended as original principle, and elements with whom it is composed as per technical patterns.

fig. 1

> KEY DETAIL

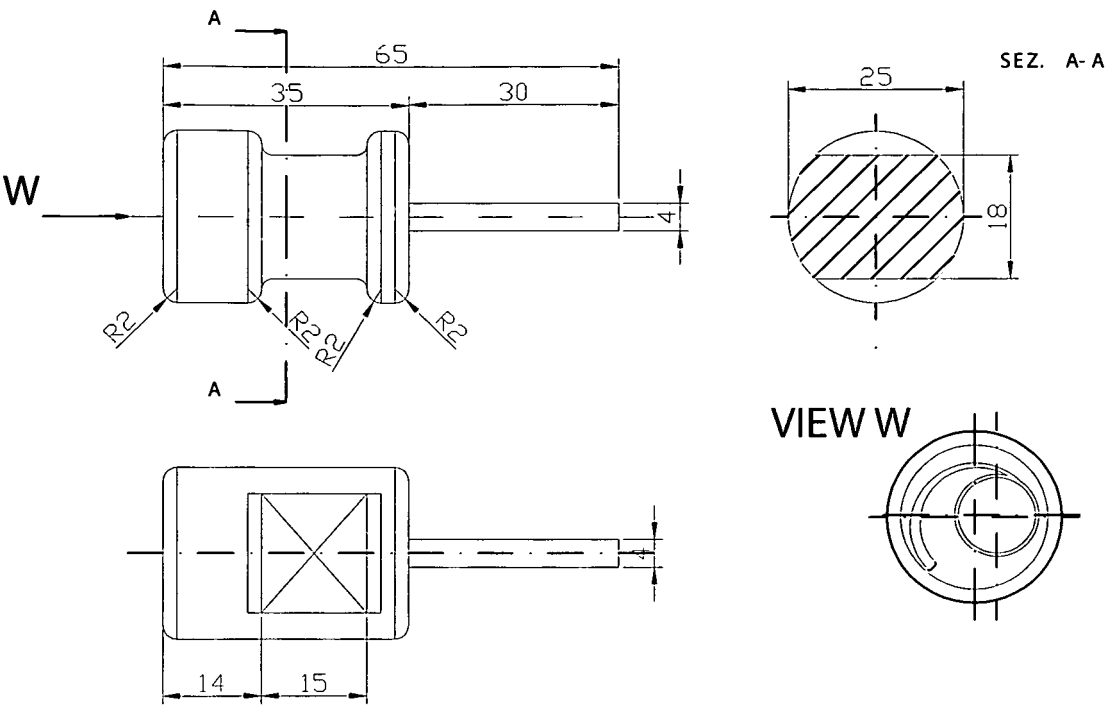
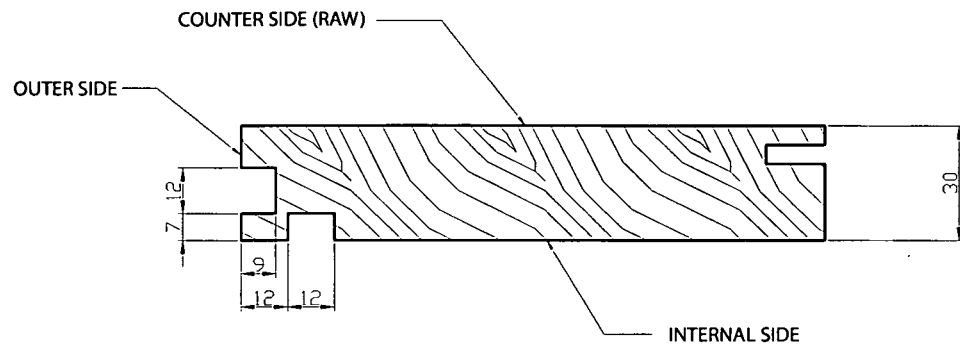


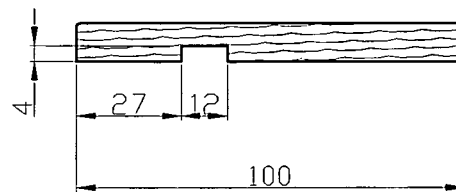
fig.2

> FRAME COMPONENTS DETAIL

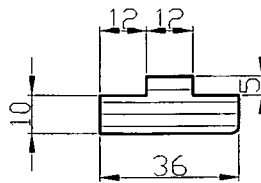
COMPLANAR DOORPOST



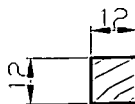
DOOR FRAME TF 100



DOORPOST STROKEBAR



JUNCTION COMPONENT



TOLLERANCE +/- 1

fig. 3

> INSERT DETAIL (FLAP cm 13 x 9)

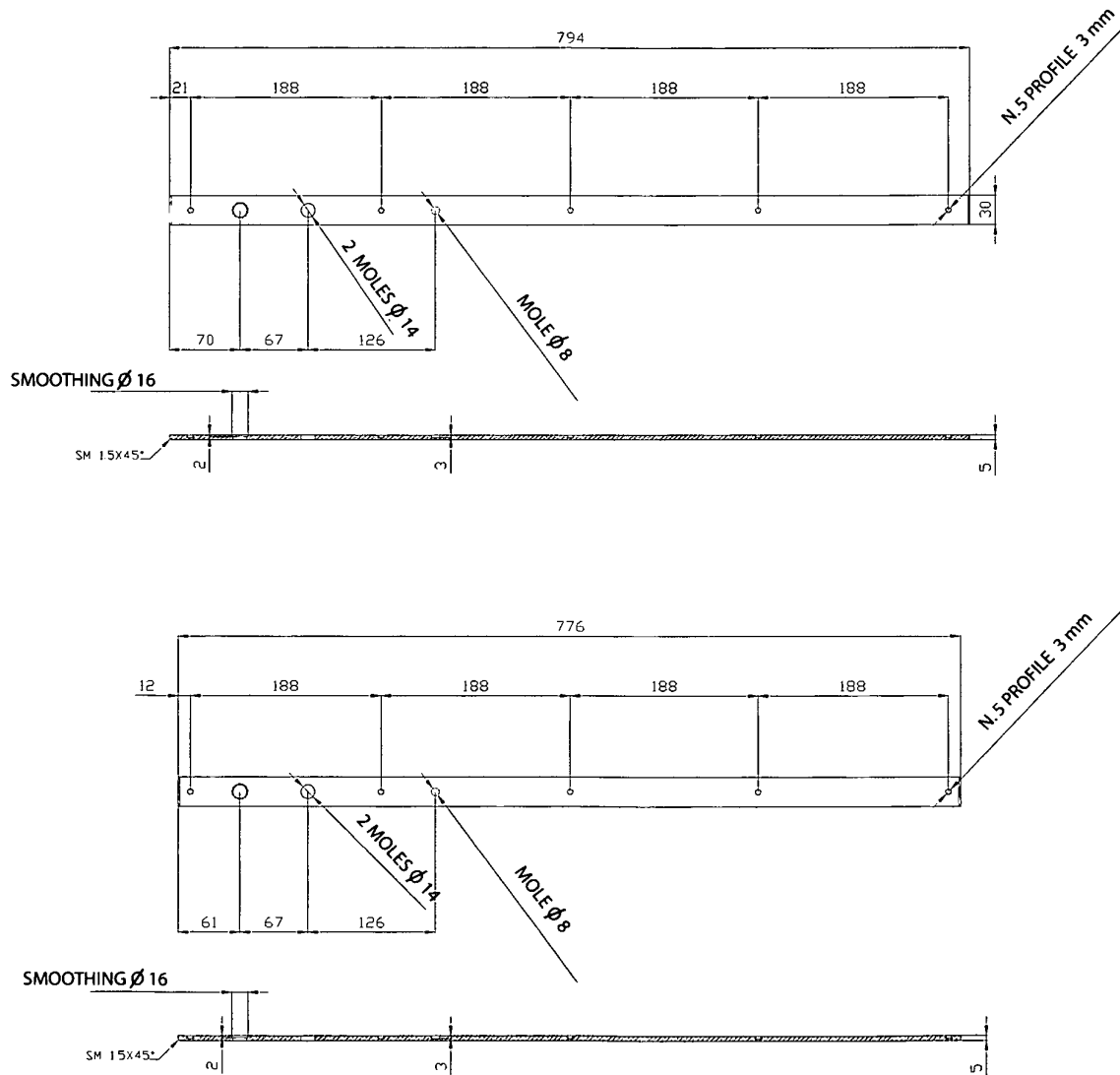


fig. 4

> BRIGHT LED DETAIL

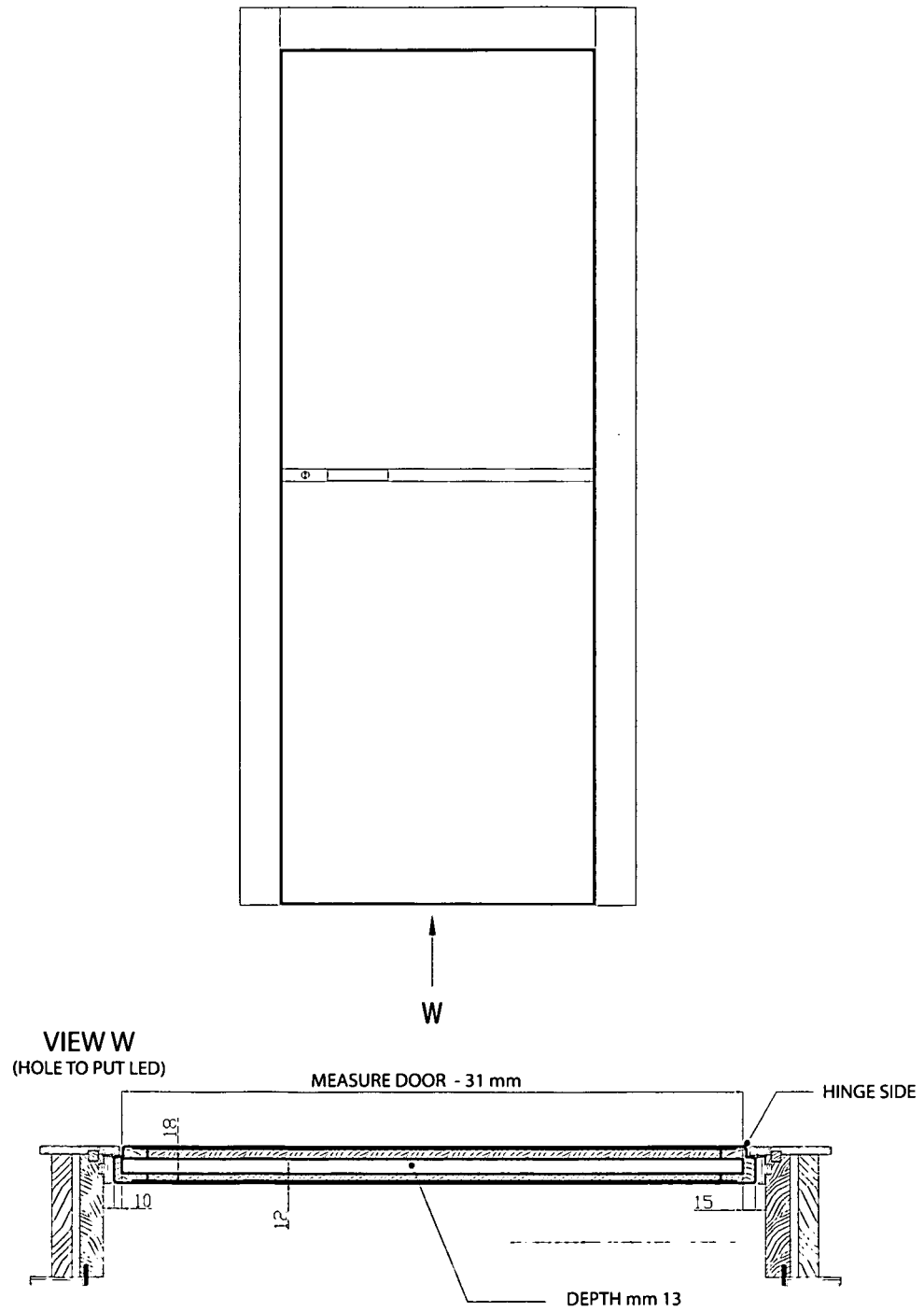
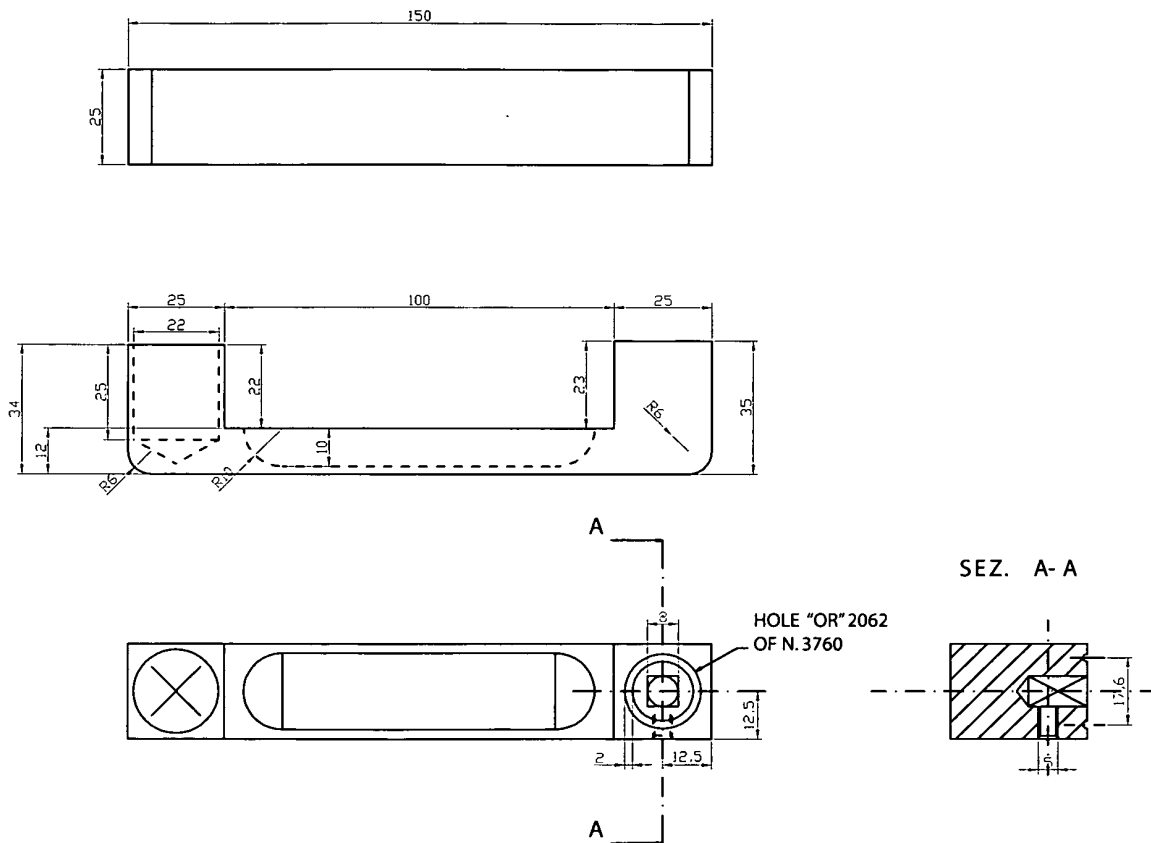


fig. 5

> RIGHT HANDLE DETAIL



(A) MOLE "OR" TO REALIZE WITH SPARK PLUG FRESA

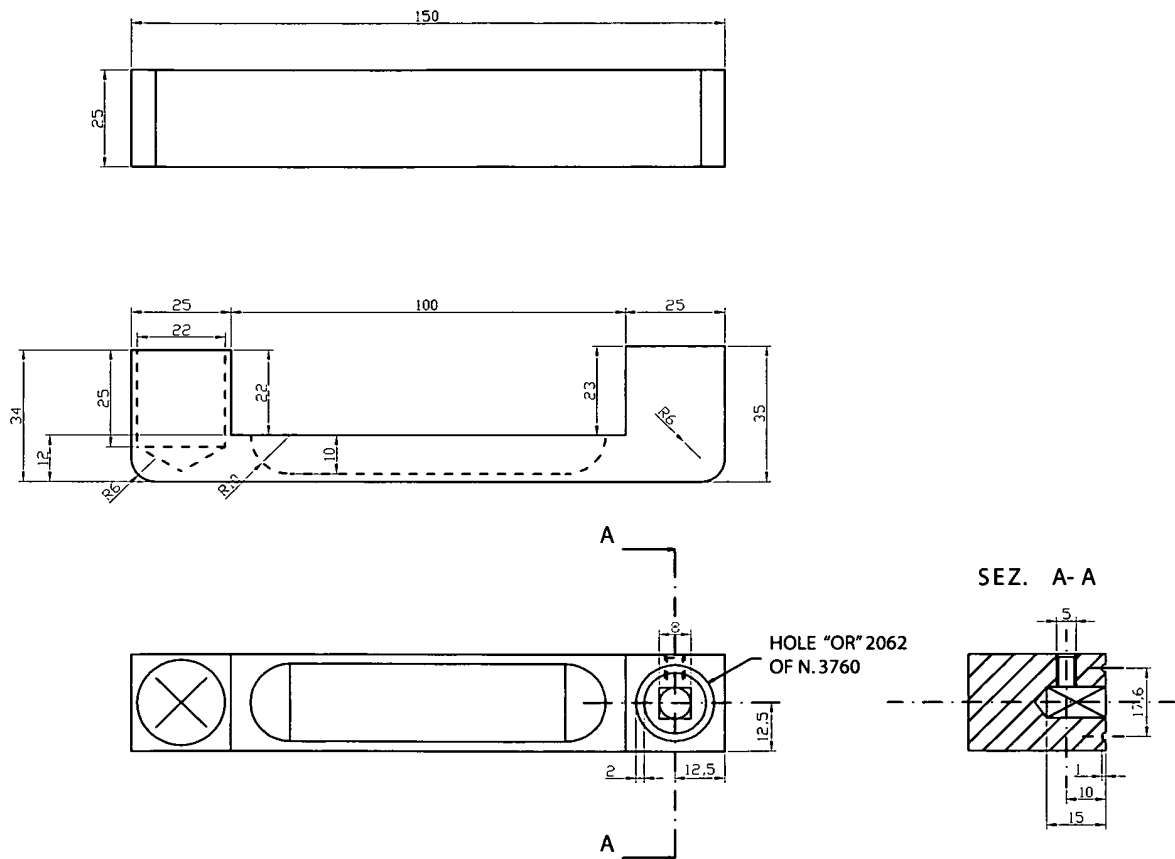
GENERAL TOLERANCE ± 0.2

SMOOTH NOT QUOTED $0,5 \times 45^\circ$

DETAILS WITH NOT CORNER

fig. 6

> LEFT HANDLE DETAIL



(A) MOLE "OR" TO REALIZE WITH SPARK PLUG FRESA

GENERAL TOLERANCE ± 0.2

SMOOTH NOT QUOTED 0,5 x 45°

DETAILS WITH NOT CORNER

fig.7

> ANCHOR BOLT DETAIL

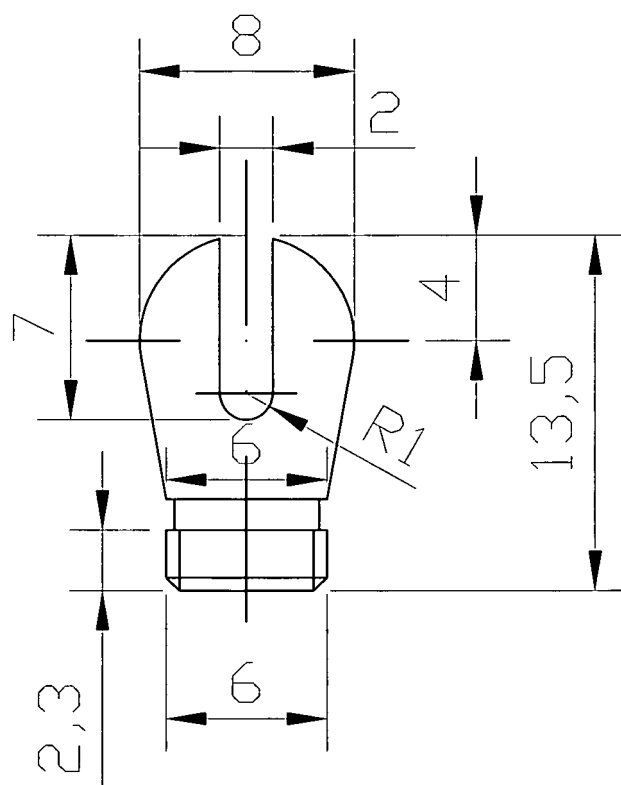


fig. 8

> FRONT DETAIL

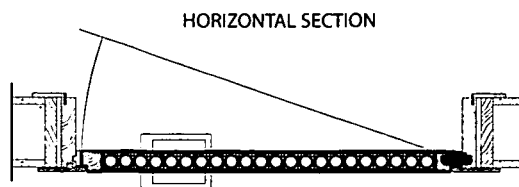
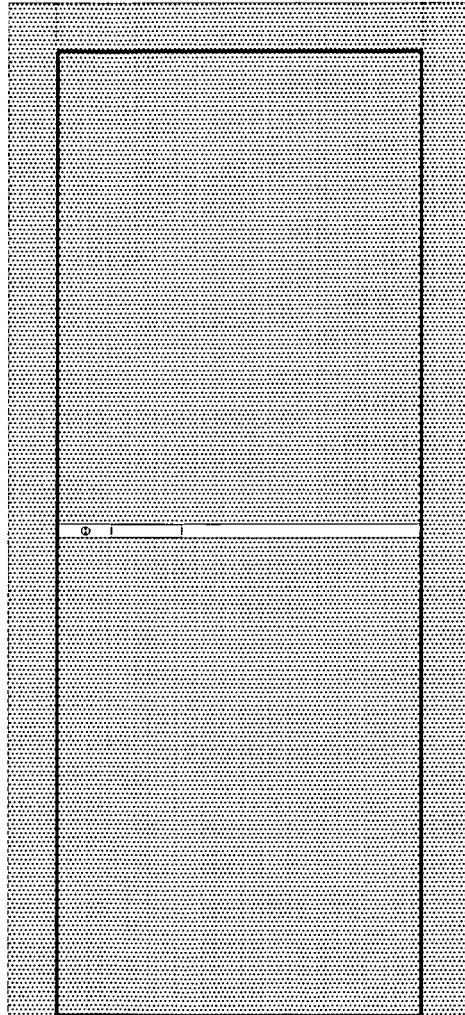
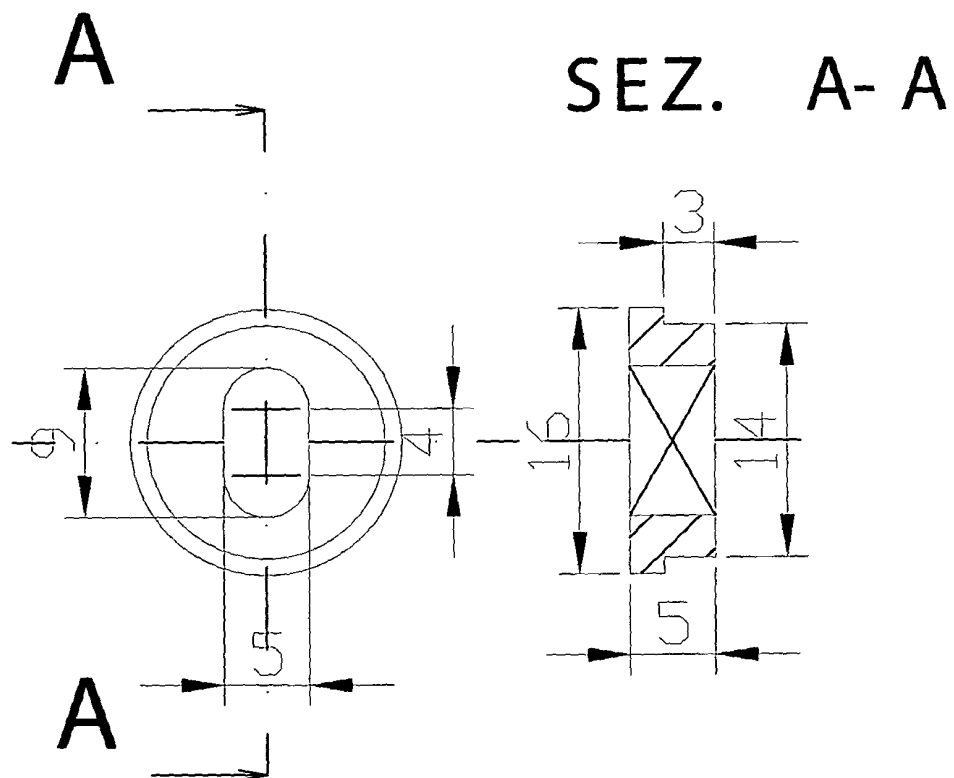


fig.9

> PLAQUE DETAIL



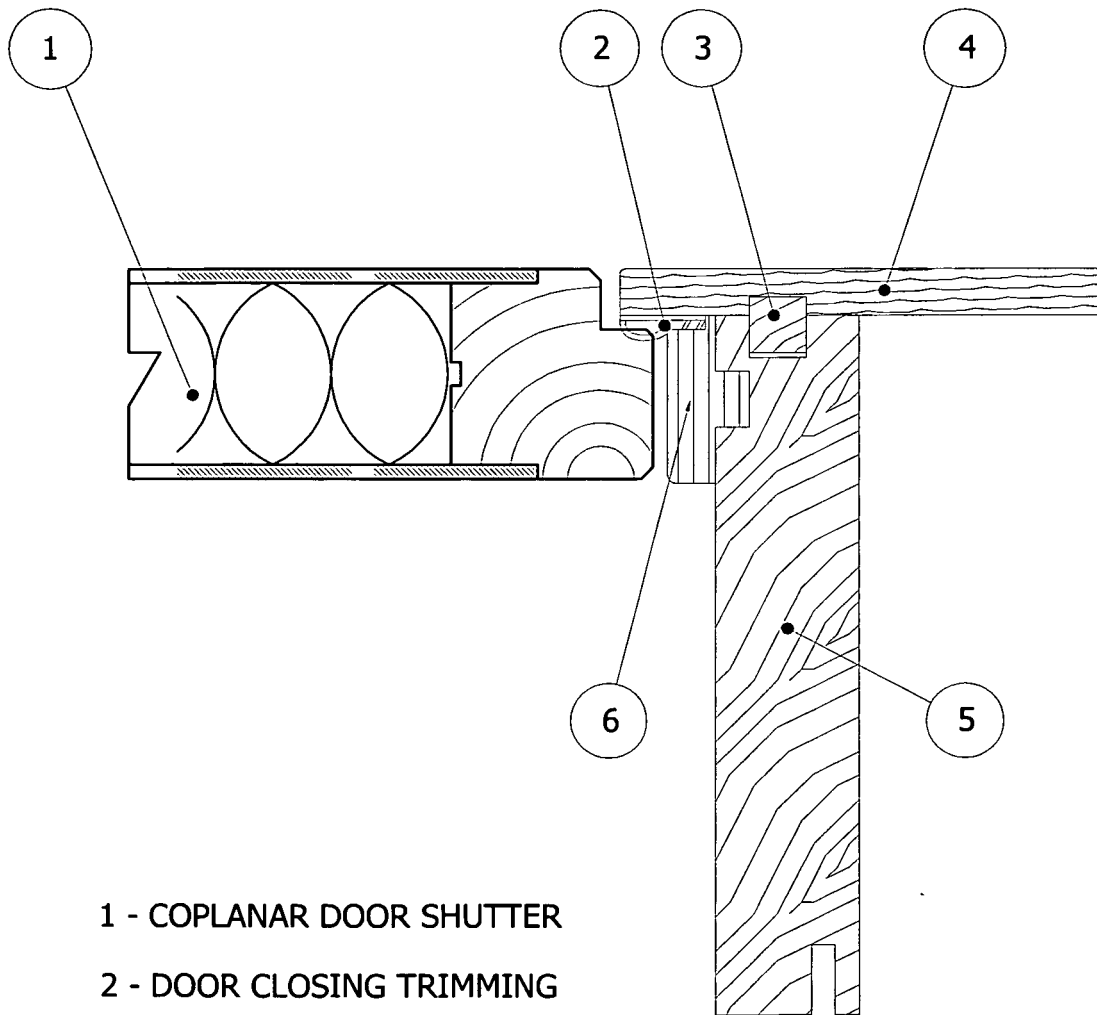
GENERAL TOLERANCE ± 0.2

SMOOTH NOT QUOTED $0,5 \times 45^\circ$

DETAILS WITH NOT CORNER (R MAX 0.4)

fig.10

> ANGLE SECTION DETAIL



- 1 - COPLANAR DOOR SHUTTER
- 2 - DOOR CLOSING TRIMMING
- 3 - JUNCTION ELEMENT
- 4 - DOOR FRAME TF 100
- 5 - COPLANAR DOORPOST
- 6 - SURMOUNTING ELEMENT



European Patent
Office

DECLARATION

Application Number

which under Rule 63 of the European Patent Convention EP 07 00 4828 shall be considered, for the purposes of subsequent proceedings, as the European search report

The Search Division considers that the present application, does not comply with the provisions of the EPC to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of all claims Reason: 1. The present application contains three independent claims, which are drafted in such a way that the claims as a whole do not comply with the provisions of clarity and conciseness in Article 84 EPC, as it is not possible for a skilled person to establish the subject-matter for which protection is sought. The reasons are as follows: - The claims are broadly drafted, as they do not contain any well defined technical feature. The terms "coplanarity of the door", "integration of the door handle" and "enlightening and not over lighted capability of the under door" have per se no well known technical meaning. Said features are moreover defined by reference to the drawings and by the expression "elements with whom it is composed": the latter expression has no technical meaning and does not limit the scope of protection of the claim in any way. - The expression "to be intended as original principle" has not any well known meaning and fails to define the specific technical features for which protection is sought. - Even by searching in the description and/or in the drawing for a support regarding what technical features the applicant refers to in the claims, it is not possible to find any additional detail, which would assist with the understanding of the application. The description contains redundant references to the drawings and no specific feature of -/--		CLASSIFICATION OF THE APPLICATION (IPC) INV. E05B55/00 E06B3/32
Place of search Munich	Date 11 July 2008	Examiner Balice, Marco

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EPO FORM 1504 (P04F37)



**European Patent
Office**

DECLARATION

Application Number

which under Rule 63 of the European Patent Convention EP 07 00 4828 shall be considered, for the purposes of subsequent proceedings, as the European search report

The Search Division considers that the present application, does not comply with the provisions of the EPC to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of all claims

CLASSIFICATION OF THE APPLICATION (IPC)

Reason:

the invention appears to be defined. The drawings on the other hand do not clearly disclose what features the invention relates to.

2. As there is no reasonable basis in the application that clearly indicates the subject-matter which might be expected to form the subject of the claims later in the procedure, no search at all was deemed possible (Rule 63 EPC).

3. As far as the claims can be understood, the application lacks unity within the meaning of Article 82 EPC, as the claims regard three separate inventions, which are not so linked as to form a single general inventive concept:

claim 1: coplanarity of the door (presumed to refer to the general door construction)

claim 2: integration of the door handle (presumed to refer to a specific door handle design)

claim 3: enlightening and not over lighted capability of the under door (presumed to refer to door lighting)

The applicant should be aware of the procedure and the relevant fees in case of an objection of lack of unity of the application. Payment of such fees would however not solve the clarity problems, which apply to all claims, so that still no search is possible.

4. The lack of clarity suggests that the applicant may lack familiarity with the patent system and the English language specific to patent applications. It is strongly recommended that for future

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EPO FORM 1504 (P04F37)

Place of search

Munich

Date

11 July 2008

Examiner

Balice, Marco



**European Patent
Office**

DECLARATION

which under Rule 63 of the European Patent Convention EP 07 00 4828 shall be considered, for the purposes of subsequent proceedings, as the European search report

Application Number

The Search Division considers that the present application, does not comply with the provisions of the EPC to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of all claims Reason: applications advice be sought prior to filing the application from a duly specialised patent attorney. Should the applicant be unclear to any of the points raised in this communication, if desired, the examiner may be contacted informally by telephone and may be able to clarify matters in the applicants native Italian language. The applicant's attention is drawn to the fact that a search may be carried out during examination following a declaration of no search under Rule 63 EPC, should the problems which led to the declaration being issued be overcome (see EPC Guideline C-VI, 8.2). -----		CLASSIFICATION OF THE APPLICATION (IPC)
Place of search Munich	Date 11 July 2008	Examiner Balice, Marco

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REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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