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ABSTRACT

The present invention relates to a fuel dispensing unit (1) for refuelling vehicles, comprising a base module (2) comprising a housing having a front side (10), a rear side (12) and end sides (11, 13) connecting said front and rear sides (10, 12), said housing being enclosed by wall sections. At least a first of said wall sections forms a first door (20), wherein said first door (20) is extending along at least a portion of the front side (10) or the rear side (12) and at least a first portion of one of the end sides (11, 13), said first door (20) being pivotable towards a second portion of said one of the end sides.

Elected for publication: fig. 2

CLAIMS

1. A fuel dispensing unit (1, 1') for refuelling vehicles, comprising

a base module (2) comprising a housing (2a) having a front side (10), a rear side (12) and end sides (11, 13) connecting said front and rear sides (10, 12), said housing (2a) being enclosed by wall sections,

at least a first of said wall sections forming a first door (20, 40, 60, 80), wherein said first door (20, 40, 60, 80) is extending along at least a portion of the front side (10) or the rear side (12) and at least a first portion of one of the end sides (11, 13),

said first door (20, 40, 60, 80) being pivotable towards a second portion of said one of the end sides (11, 13).

2. A fuel dispensing unit (1, 1') according to claim 1, wherein at least a second of said wall sections forms a second door (30, 50, 70, 90), said second door (30, 50, 70, 90) extending along at least a portion of the front side (10) or the rear side (12) and at least a first portion of one of the end sides (11, 13),

said second door (30, 50, 70, 90) being pivotable towards a second portion of said one of the end sides (11, 13).

3. A fuel dispensing unit (1, 1') according to claim 2, wherein said first and said second doors (20, 30, 40, 50, 60, 70, 80, 90) are both arranged to extend along at least a portion of either the front side (10) or the rear side (12).

4. A fuel dispensing unit (1, 1') according to claim 2, wherein said first door (20, 40, 60, 70) is arranged to extend along at least a portion of the front side (10) and said second door (30, 50, 80, 90) is arranged to extend along at least a portion of the rear side (12).

5. A fuel dispensing unit (1, 1') according to any one of claims 2-4, wherein said first and second doors (20, 30, 40, 50, 60, 70, 80, 90) are

pivotable towards the same or towards opposing end sides (11, 13) of said housing (2a).

6. A fuel dispensing unit (1, 1') according to any one of claims 1-5, wherein at least one of said doors (20, 30, 40, 50, 60, 70, 80, 90) is extending along at least a portion of both end sides (11, 13).

7. A fuel dispensing unit (1, 1') according to any of claims 2-6, wherein said first and second doors (20, 30, 40, 50, 60, 70, 80, 90) each are pivotable about a first axis of rotation (14) extending in a vertical direction and arranged along the end side (11, 13) of the housing (2a).

8. A fuel dispensing unit (1, 1') according to claim 7, wherein said first axis of rotation (14), in view of a vertical centre plane (P) intersecting said opposing end sides (11, 13), is horizontally offset in the longitudinal extension of the end sides in relation to said vertical centre plane (P).

9. A fuel dispensing unit (1, 1') according to any one of claims 1-8, wherein the first portion of the end side (11, 13) forming part of a door (20, 30, 20 40, 50, 60, 70, 80, 90) has a larger horizontal extension than the second portion of said end side (11, 13).

10.A fuel dispensing unit (1, 1') according to any one of claims 1-9, wherein at least one of said doors (20, 30, 40, 50, 60, 70, 80, 90) is pivotable about at least a second axis of rotation (15) extending in a vertical direction located on each door.

11.A fuel dispensing unit (1, 1') according to any one of claims 1-10, further comprising a locking means (110) for locking each door in an open position.

12.A fuel dispensing unit (1, 1') according to any one of claims 1-11, further comprising a sealing arranged between each door and adjacent wall sections.

Dated this 16th day of April 2012

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Fig. 2

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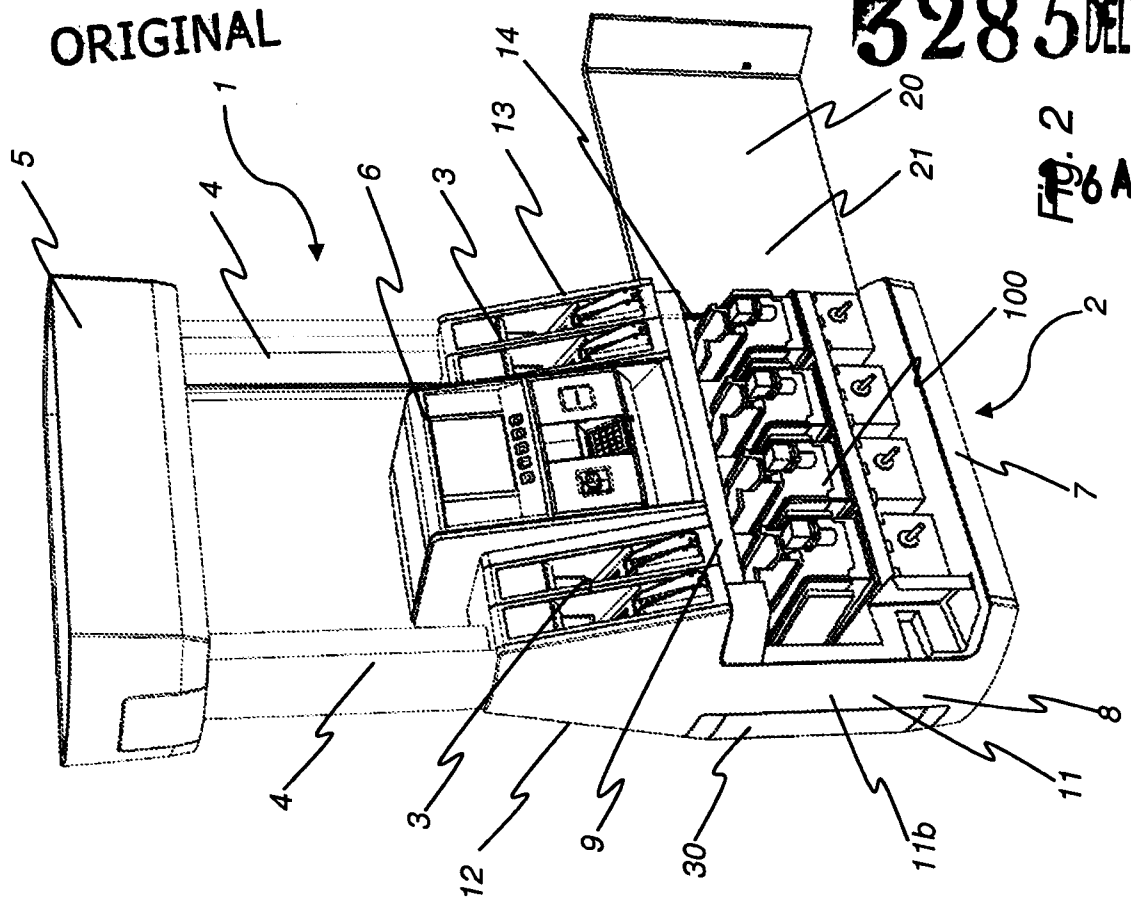

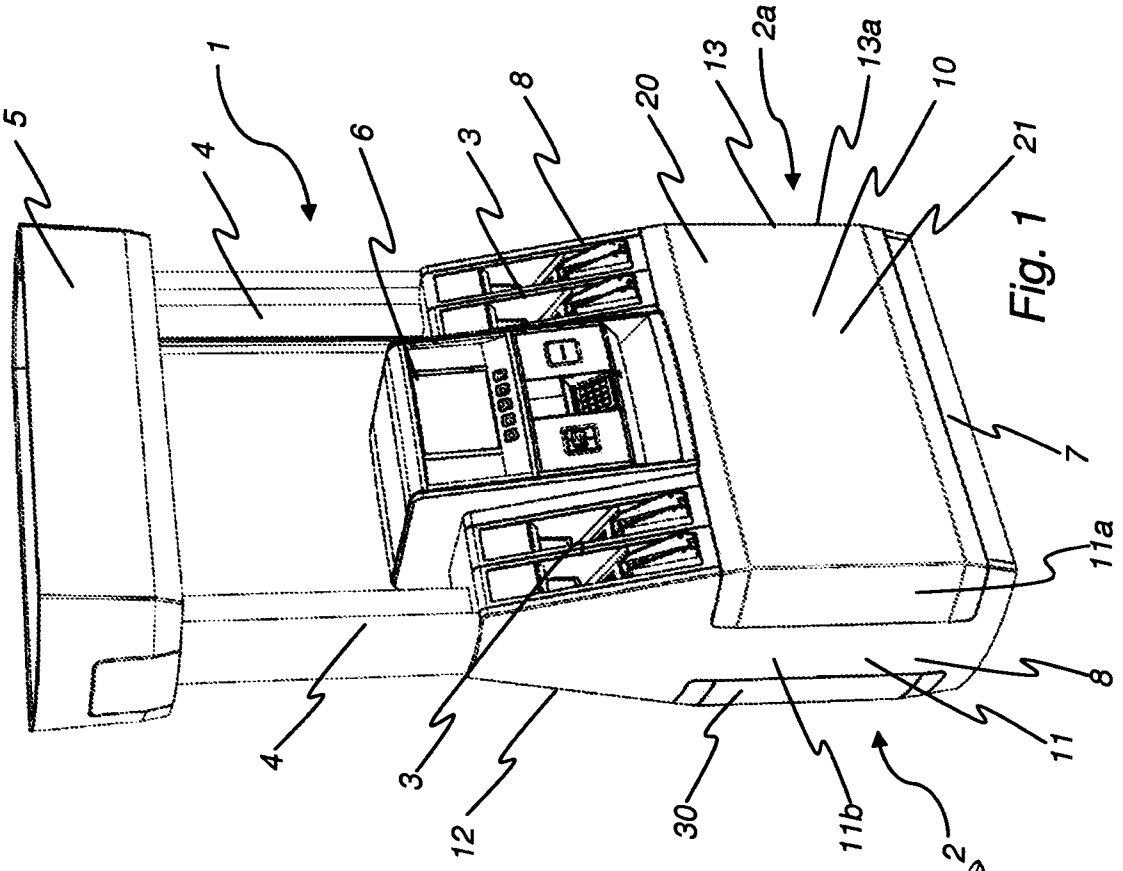

Fig. 1

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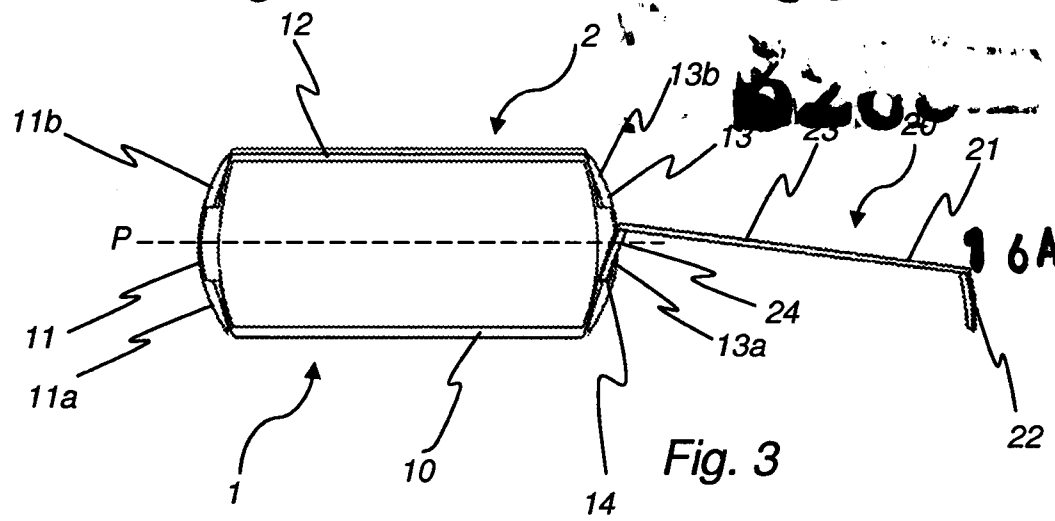

Fig. 3

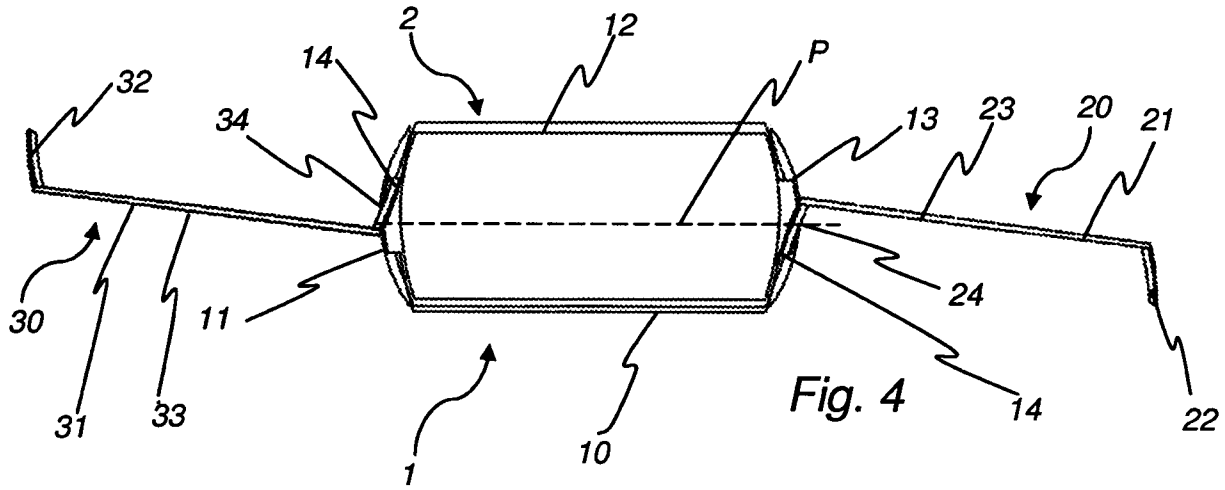

Fig. 4

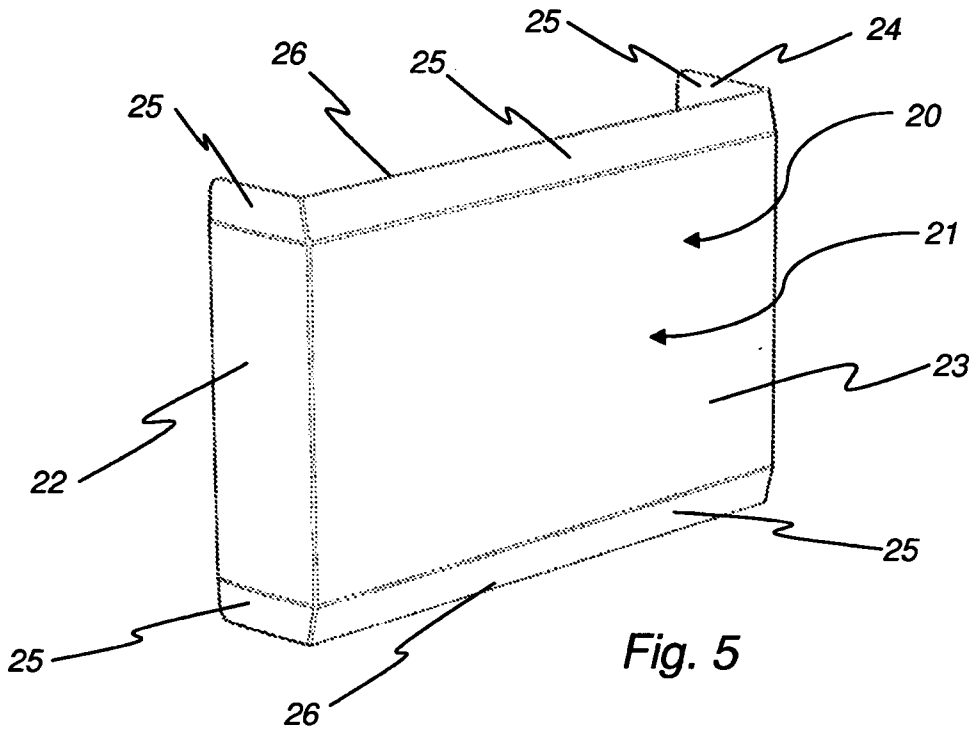

Fig. 5

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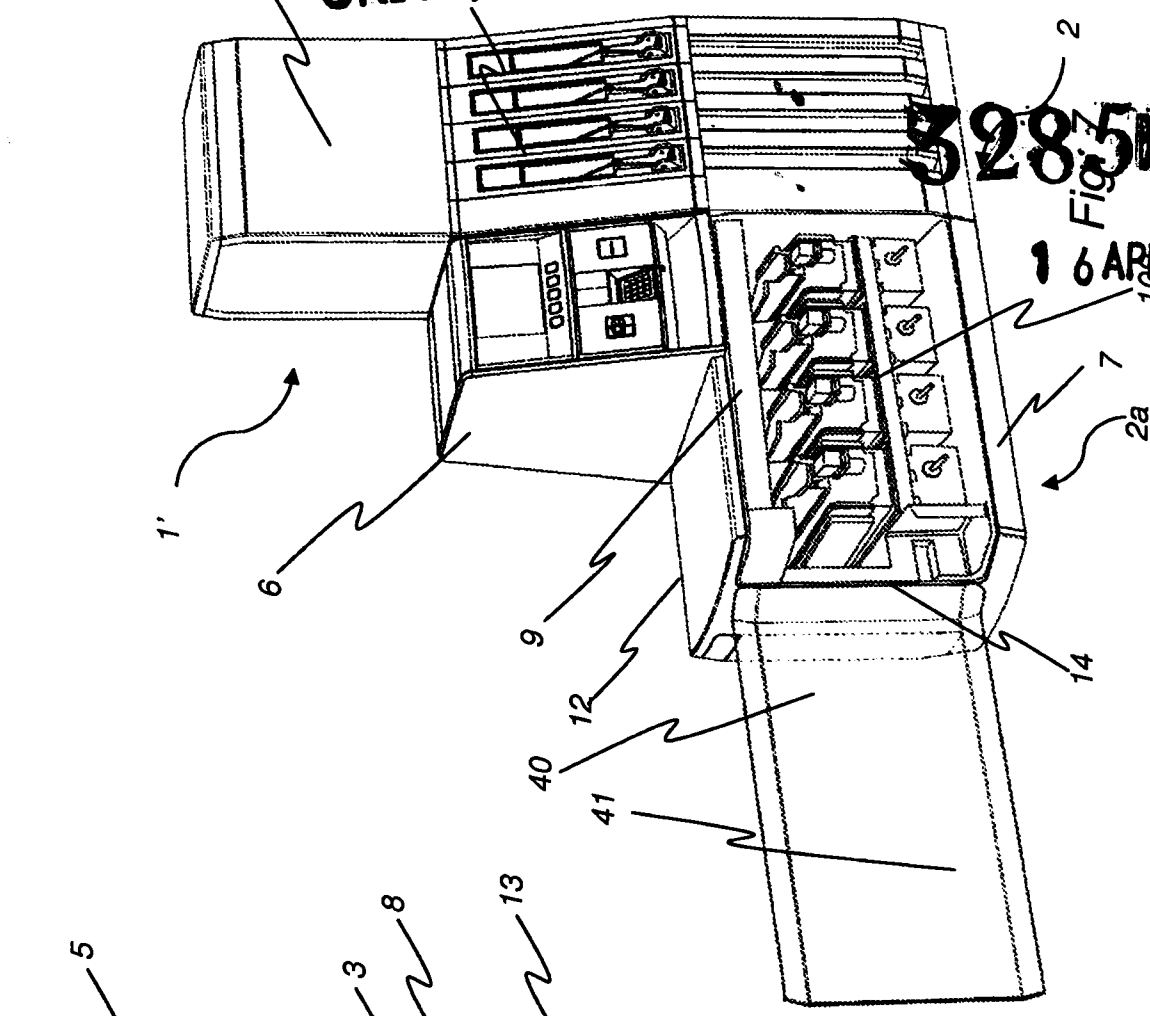

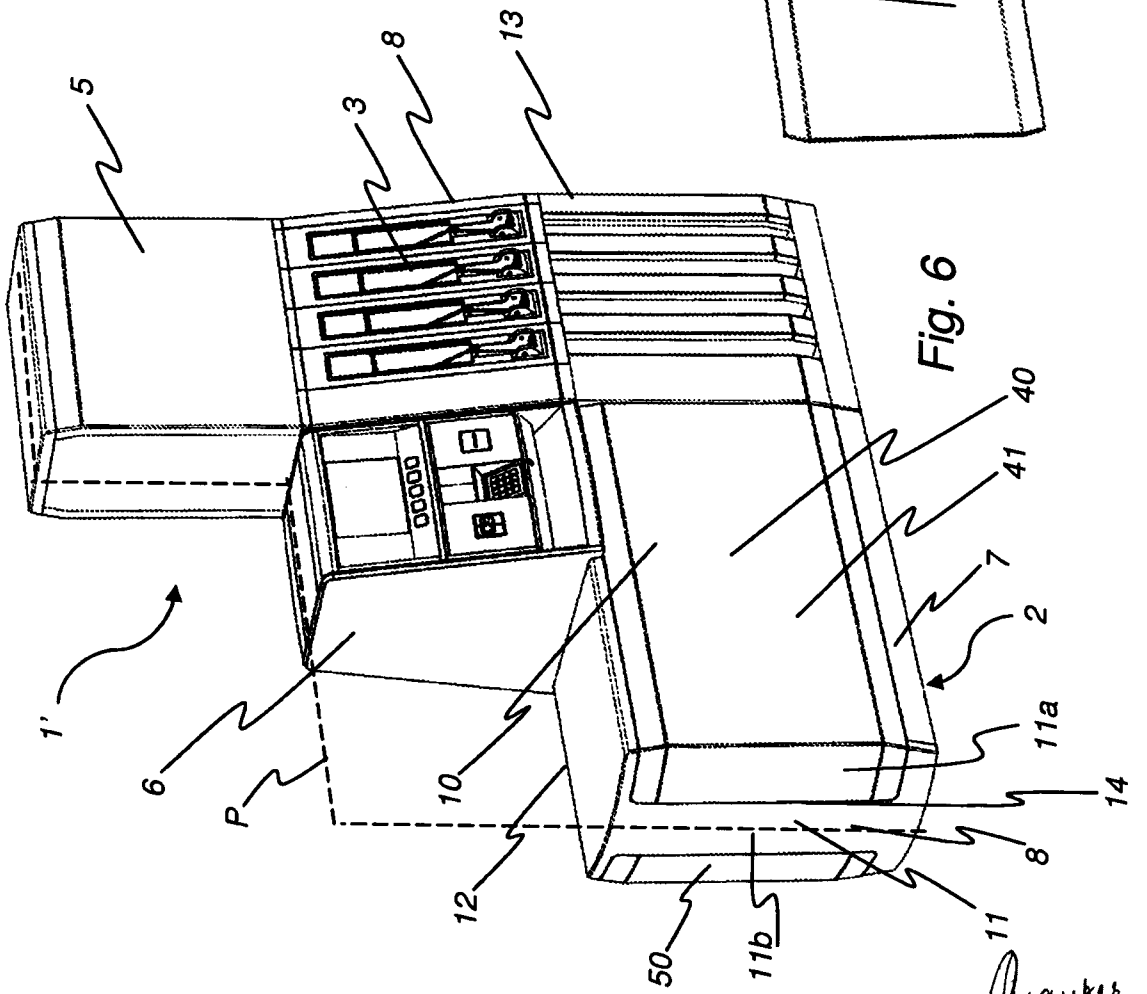

Fig. 6

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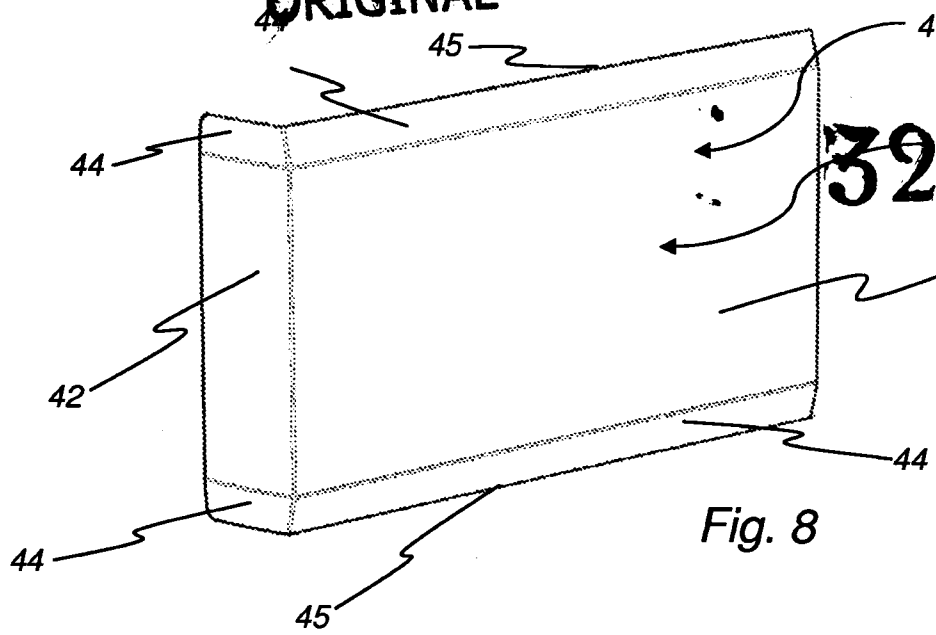

Fig. 8

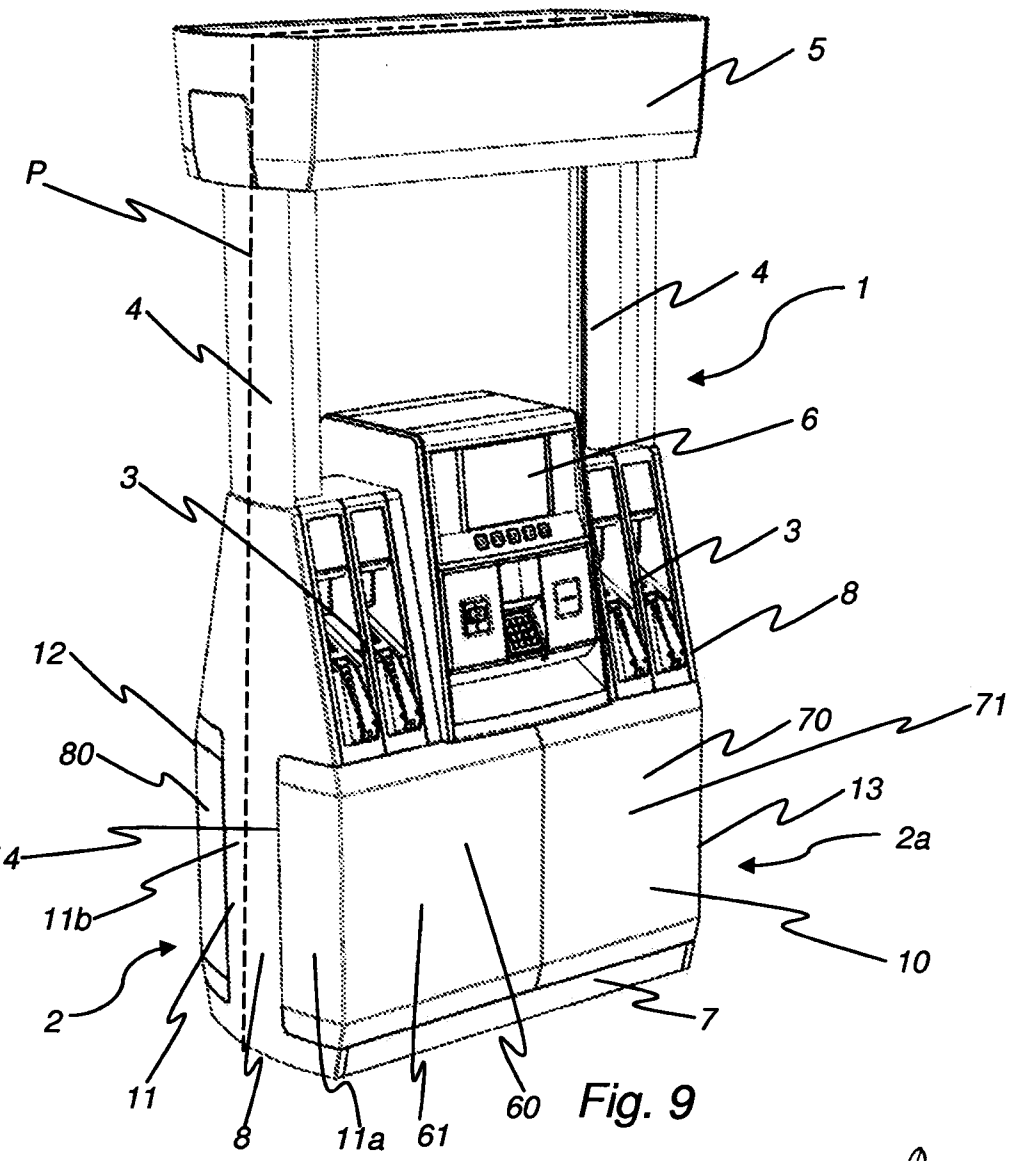

Fig. 9

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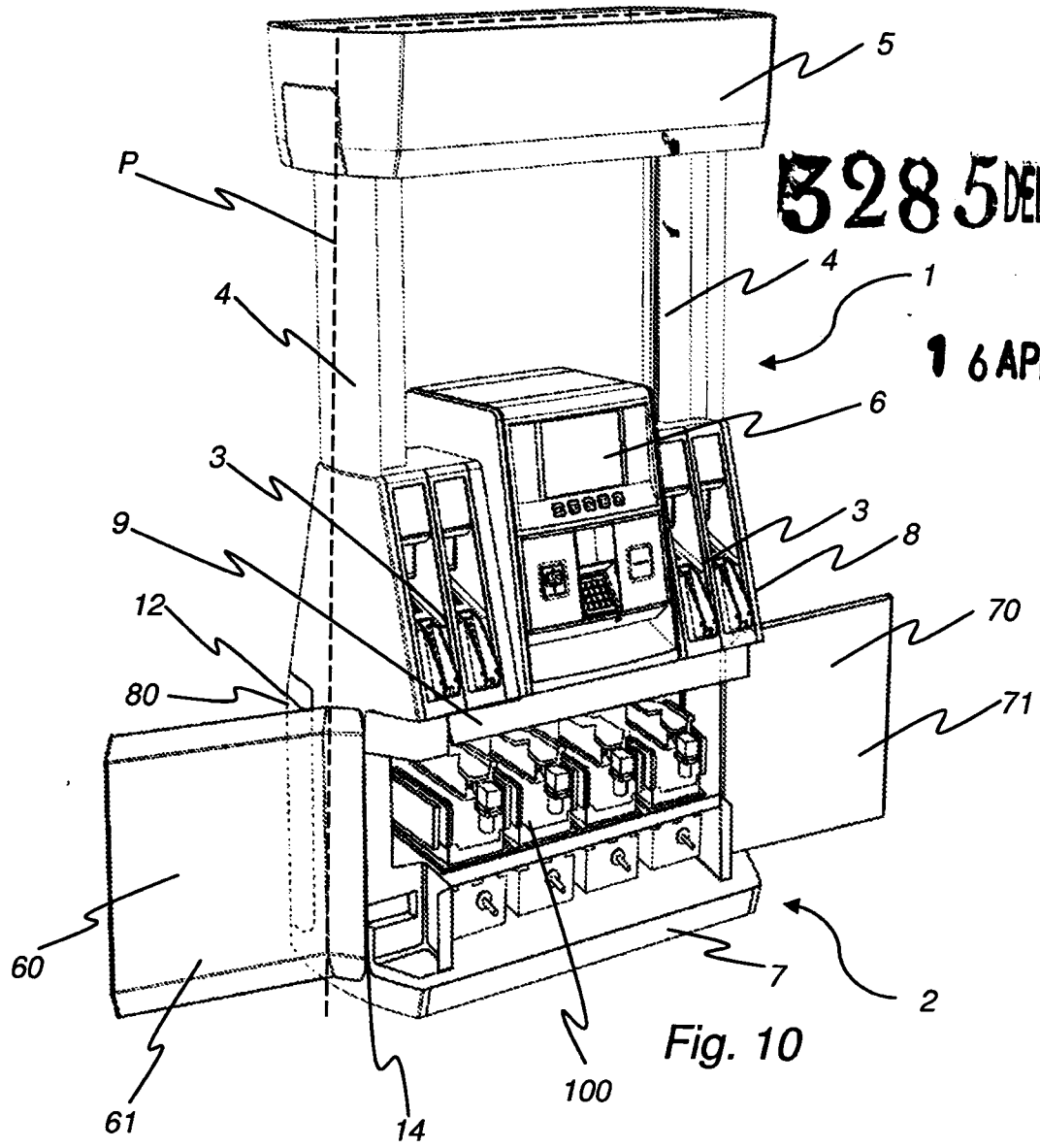

Fig. 10

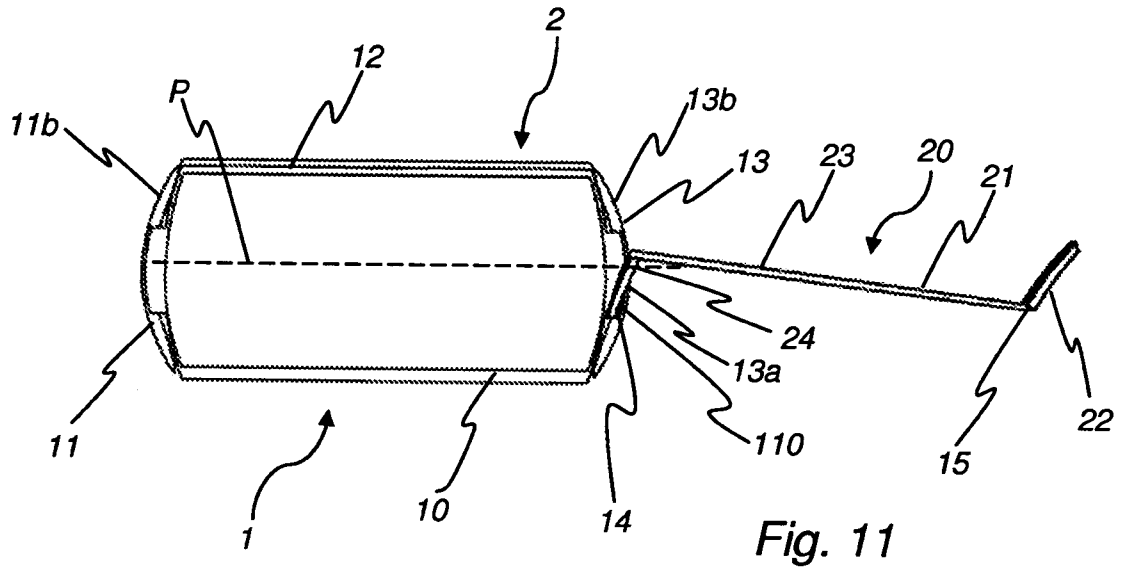

Fig. 11

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A FUEL DISPENSING UNIT

Technical field

The present invention relates to a fuel dispensing unit for refuelling vehicles having a pivotable door.

Background art

A fuel dispensing unit for refuelling the fuel tank of a motor vehicle with fuel is a complex device containing a vast number of components connected to each other. The components of a fuel dispensing unit can be divided into two categories, inner components which are not visual to a user and outer components surrounding the inner components. The inner components typically comprise hydraulics and a tube arrangement for dispensing fuel from an underground fuel reservoir, together with electronic components controlling the fuel dispensing unit. The outer components, such as a base module, a top module, pillars, a nozzle module etc, represent the fundamental structure of the fuel dispensing unit protecting and supporting the inner components.

In order to ensure correct function of, and to allow maintenance of the inner components, the inner components must be accessible when the fuel dispensing unit is assembled and is in use. Especially, the hydraulics arranged inside the base module must be easily accessible.

For facilitating the maintenance of the hydraulics, it is important that access is obtained to all components arranged in the base module. Further, it is desirable that an ergonomic working position is provided for the person carrying out the required maintenance work. Additionally, it is important that no object arranged on the fuel dispensing unit is hindering cars from passing by in a driving lane along the fuel dispensing unit, or that any object risks being damaged during maintenance.

In prior-art solutions, a simple removable panel or door arranged on one side of the base module is provided to acquire access to the components 30 arranged inside the base module. However, it has been experienced that these solutions do not fulfil the requirements discussed above, since full