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(71) Applicant: **Blücher Metal A/S**  
**7480 Vildbjerg (DK)**

(72) Inventor: **Lohmann, Hans**  
**4180 Sorø (DK)**

(74) Representative: **Nielsen, Leif et al**  
**Patrade A/S**  
**Fredens Torv 3A**  
**8000 Aarhus C (DK)**

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(54) **Method for mounting a floor drain and fitting for use in the method**

(57) A mounting fitting 10 for mounting in a floor drain 1 is disclosed. The floor drain 1 is placed in its position before casting the floor, and where the floor drain is fastened to a sidewall in a room where the drain is placed in order to be fixed during casting of the floor.

The mounting fitting 1 includes a central support part 12 which at each end has a contact face 16 for contact against the wall and a contact face 14 for contact against a face 20 on the floor drain. Each contact face 14, 16 is

provided with apertures 17, 18 for receiving a releasable fastening means which is adapted to interact with corresponding fastening means 7 in the wall and the floor drain.

This design enables separating the mounting fitting 10 from the floor drain 1 and from the wall after the casting and hardening of a floor. The floor drain 1 will thus not constitute a permanent connection between the wall and the floor. Furthermore, it will be possible to place the floor drain spaced apart from the wall.

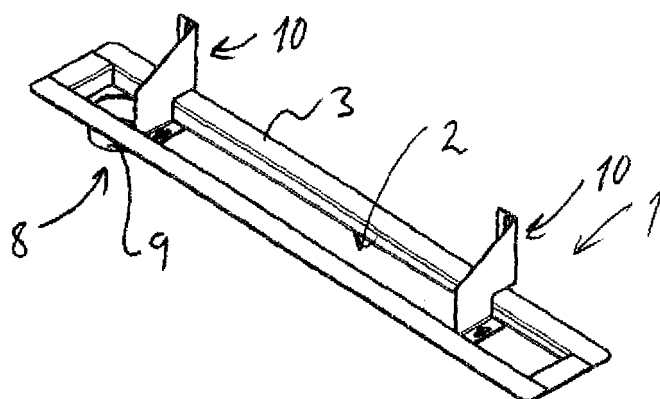
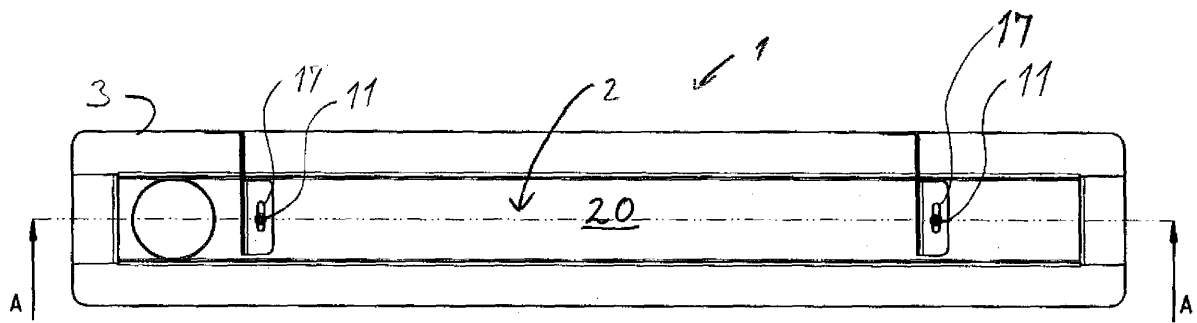
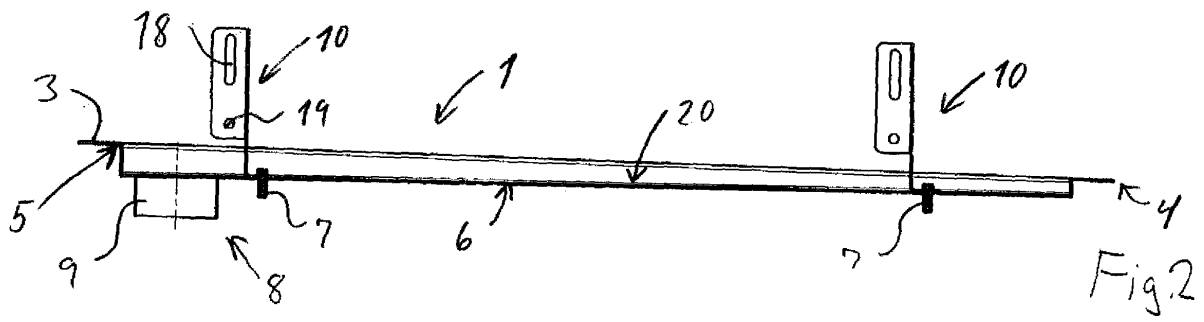


Fig. 1





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# EUROPEAN SEARCH REPORT

Application Number  
EP 07 10 1089

| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | US 4 714 372 A (COMMINS ALFRED D [US])<br>22 December 1987 (1987-12-22)<br>* figure 2 *                                          | 6                                                          | INV.<br>E03F5/04<br>E04B1/26            |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -----<br>WO 02/057557 A (WARD BUILDING COMPONENTS LTD [GB]; MORGAN GARRY [GB])<br>25 July 2002 (2002-07-25)<br>* figure 4 *      | 6-10                                                       |                                         |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -----<br>WO 01/73231 A (NIELSEN CLAUS DYRE [DK])<br>4 October 2001 (2001-10-04)<br>* page 12, line 10 - line 22; figures 7a-7f * | 1-5                                                        |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                  |                                                            | TECHNICAL FIELDS SEARCHED (IPC)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                  |                                                            | E03F<br>E04B                            |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                  |                                                            |                                         |
| Place of search<br><b>Munich</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                  | Date of completion of the search<br><b>12 October 2007</b> | Examiner<br><b>Flygare, Esa</b>         |
| CATEGORY OF CITED DOCUMENTS<br>X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document<br>T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>& : member of the same patent family, corresponding document |                                                                                                                                  |                                                            |                                         |

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### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 07 10 1089

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 6-10

Mounting fitting for mounting a floor drain  
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2. claims: 1-5

Method for mounting a floor drain  
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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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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12-10-2007

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s)                                                                                                                                                                | Publication<br>date                                                                                                                                    |
|-------------------------------------------|---|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| US 4714372                                | A | 22-12-1987          | NONE                                                                                                                                                                                      |                                                                                                                                                        |
| WO 02057557                               | A | 25-07-2002          | GB 2372514 A<br>IE 20020028 A1                                                                                                                                                            | 28-08-2002<br>24-07-2002                                                                                                                               |
| WO 0173231                                | A | 04-10-2001          | AT 312245 T<br>AU 4231901 A<br>CN 1440482 A<br>CZ 20023188 A3<br>DE 60115636 T2<br>EP 1287213 A1<br>ES 2250365 T3<br>JP 2003529005 T<br>NO 20024555 A<br>PL 365880 A1<br>US 2003115814 A1 | 15-12-2005<br>08-10-2001<br>03-09-2003<br>12-03-2003<br>10-08-2006<br>05-03-2003<br>16-04-2006<br>30-09-2003<br>19-11-2002<br>10-01-2005<br>26-06-2003 |