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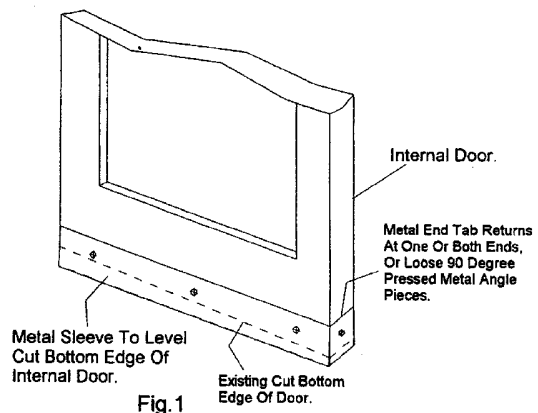
(51) INT CL:  
E06B 3/88 (2006.01)

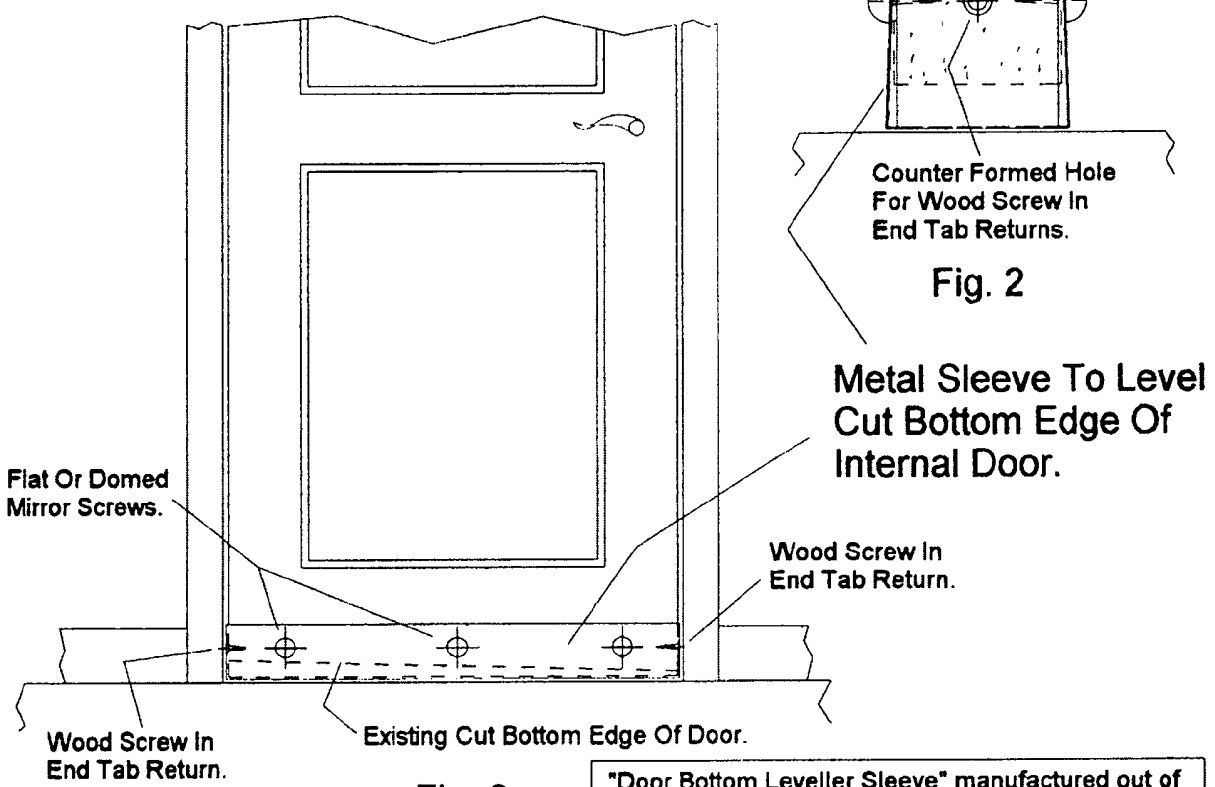
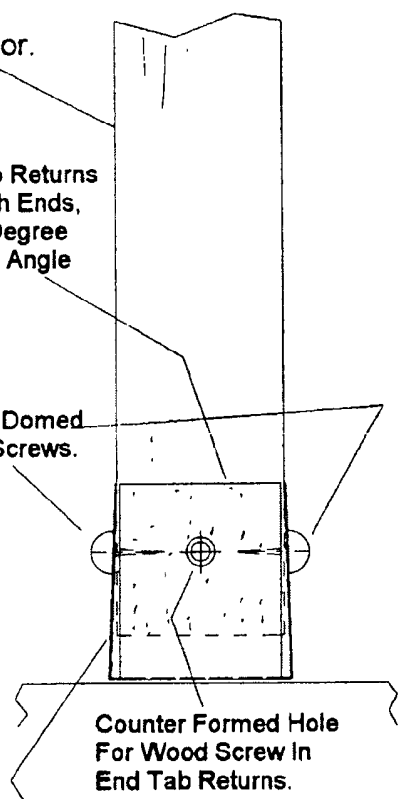
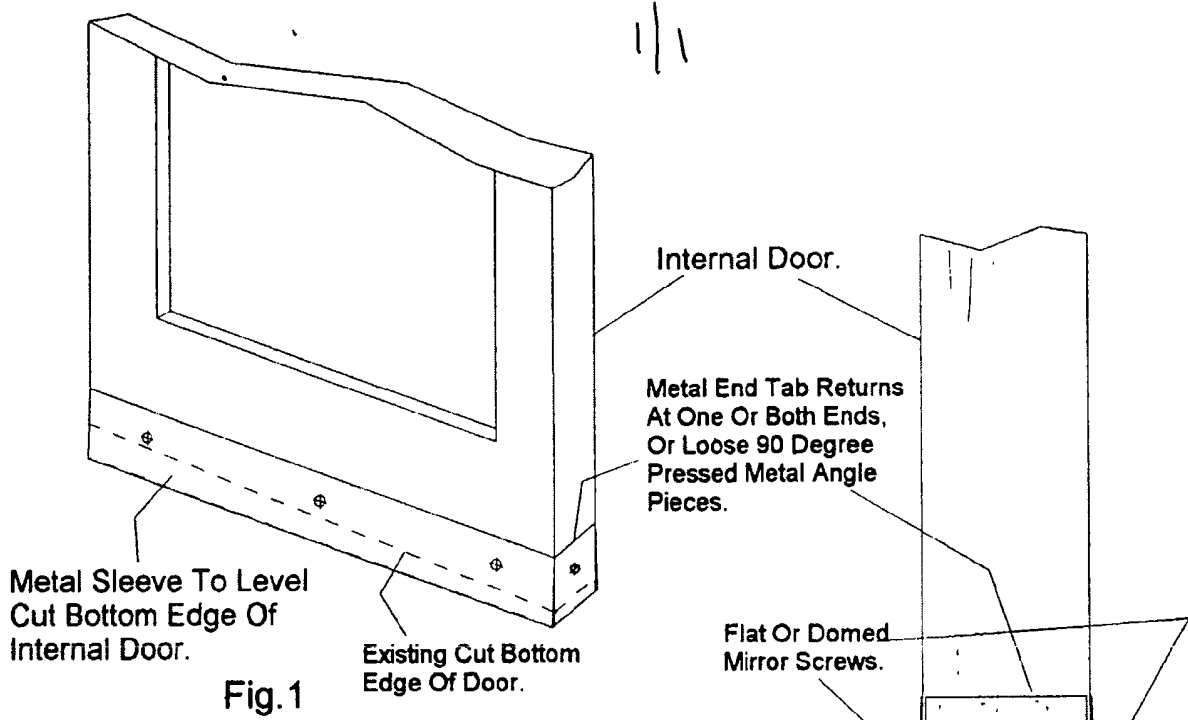
(56) Documents Cited:  
GB 0509358 A WO 2005/049949 A  
JP 080158660 A JP 2002054359 A  
US 5214880 A US 20050126089 A

(58) Field of Search:  
INT CL E06B  
Other: EPODOC, WPI

(54) Abstract Title: **Door levelling sleeve**

(57) A pressed metal sleeve for a door to mask an uneven cut edge on the bottom edge of internal doors to make up the space between the bottom of the door and the top of the floor finish. The sleeve may be manufactured from a thin gauge metal, for example brass, stainless steel. The leveller can be manufactured with two open ends or one open end. The leveller can be secured in position using "mirror" screws or countersunk wood screws.





"Door Bottom Leveller Sleeve" manufactured out of thin gauge metal e.g. Brass, Stainless Steel etc. with surface finish to match door handle & hinges etc. (e.g. polished, satin or brushed etc.).

## DESCRIPTION

### **Title: Door-Bottom Leveller Sleeve For Internal Doors .**

This is a pressed metal sleeve which is fitted over the bottom edge of internal doors to mask an uneven, cut edge and accurately make up the space between the bottom of the door and the top of the floor finish e.g. carpet, wood laminate, polished floor boards, linoleum, tiles etc. and to give a neat decorative finish to the bottom edge of the door.

The sleeve is manufactured out of thin gauge metal, to match the other door fittings (e.g. brass, stainless steel etc. with options of surface finishes such as polished, satin and brush etc.), as a pressed channel sleeve that can have two end returns which would require the door to be removed from its hung position so that the "Leveller" can be slid into position on the bottom of the door.

Alternatively the pressed metal channel sleeve can be manufactured with one end return so that the "Leveller" can be slid into position on the door bottom without removing the door from its hung position.

The pressed metal channel sleeve can be manufactured with no integral end returns and these can be supplied as loose matching 90 degree angle pieces to suit customers individual preferences.

When the "Leveller" has been positioned on the bottom of the door and the door is hung in situ the "Leveller" is accurately adjusted to its final require position and screwed in place using "mirror" screws (or similar) to give a neat decorative finish. The end return tabs are also secured in position with single wood screws in counter formed holes.

The drawing SK1 shows various details of "Leveller".

Fig.1 shows isometric detail of the door bottom with the "Leveller" in position.

Fig. 2 shows an enlarged view on the end of the door at the bottom.

Fig. 3 shows an elevation on the bottom part of the door with the door "Leveller" in position.

The door "Levellers" will be manufactured in various dimensions to suit different door sizes (thickness and width etc.).

## CLAIMS

- 1) The “invention/device” is a manufactured Pressed Metal Door-Bottom Leveller Sleeve to mask an uneven, cut edge on the bottom edges of internal doors and accurately make up the space between the bottom of a door and the top of the floor finish.
- 2) Additional purpose is to give a neat decorative finish to the bottom edge of an internal door.
- 3) The sleeve is manufactured out of thin gauge metal e.g. brass, stainless steel etc. (to match the other door furniture e.g. door handle, door hinges etc.).
- 4) Various surface finishes to the metal sleeve, such as polished, satin and brush etc.
- 5) Pressed metal channel sleeve can have two, one or no end returns (to suit purchaser’s requirements).
- 6) Separate 90 degree angle end pieces can be supplied for use with channel sleeves that have no integral end returns.
- 7) The pressed metal channel sleeve has pre-drilled holes for fixing to door with “mirror” screws (or similar).
- 8) End return tabs and loose 90 degree angle pieces are manufactured with counter formed holes for countersunk wood screws.
- 9) The pressed metal channel sleeve and the loose 90 degree angle pieces will be manufactured in various dimensions to suit different door sizes (thickness and width etc.).

**Application No:** GB0715975.9

**Examiner:** Mr Philip Lawrence

**Claims searched:** 1-9

**Date of search:** 23 November 2007

**Patents Act 1977: Search Report under Section 17**

**Documents considered to be relevant:**

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1 at least	JP08158660 A (SEKISUI HOUSE KK), 18.06.1996 (see WPI Accession Abstract No 1996-340265 [34] and Figures).
X	1 at least	GB509358 A (MORAWETZ), see whole document, esp. page 1 lines 61-71, 81-87.
X	1 at least	WO2005/049949 A (SYSTEM QUALITY), 02.06.2005 (see WPI Accession Abstract No. 2005-386626 [39] and Figures).
X	1 at least	US2005/0126089 A (LIU), see Abstract and Figure 4.
X	1 at least	US5214880 A (WOODRUFF et al.), see Abstract and Figure 6.
X	1 at least	JP2002054359 A (POLYMER KASEI), 20.02.2002 (see WPI Accession Abstract No. 2002-249175 [30] and Figure 2).

**Categories:**

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art
Y	Document indicating lack of inventive step if combined with one or more other documents of same category	P	Document published on or after the declared priority date but before the filing date of this invention
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application

**Field of Search:**

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>X</sup>:

Worldwide search of patent documents classified in the following areas of the IPC

E06B

The following online and other databases have been used in the preparation of this search report

EPODOC, WPI

**International Classification:**

4

<b>Subclass</b>	<b>Subgroup</b>	<b>Valid From</b>
E06B	0003/88	01/01/2006