

(19)



(11)

**EP 2 607 561 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**03.07.2013 Bulletin 2013/27**

(51) Int Cl.:  
**E04B 1/26 (2006.01)**

(43) Date of publication A2:  
**26.06.2013 Bulletin 2013/26**

(21) Application number: **12198114.6**

(22) Date of filing: **19.12.2012**

(84) Designated Contracting States:  
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**  
Designated Extension States:  
**BA ME**

(72) Inventors:  
• **McAndrew, Scott**  
**Glenrothes, Fife KY7 6QS (GB)**  
• **Page, Michael**  
**Kirkcaldy, Fife KY1 4BS (GB)**

(30) Priority: **19.12.2011 GB 201121813**

(74) Representative: **Johnson, Lucy Elizabeth**  
**Murgitroyd & Company**  
**Scotland House**  
**165-169 Scotland Street**  
**Glasgow G5 8PL (GB)**

(71) Applicant: **Illinois Tool Works, Inc.**  
**Glenview, IL 60025 (US)**

(54) **Improved hanger**

(57) A joist hanger comprising:  
a support bracket, having a base portion and two substantially parallel side portions upstanding from opposing edges of said base portion;  
at least one back flange portion adjoining at least one of said two side portions at a longitudinal edge of respective at least one of said two side portions and adapted to abut a face-fixing surface;  
at least one top flange portion, adjoining said at least one back flange portion at an edge distal to said base portion and adapted to be moveable between a face-fixing position, wherein said top-flange portion is coplanar said at least one back flange portion, and a top-fixing position, wherein said top flange portion is non-coplanar to said at least one back flange portion, further comprising at least one longitudinally elongated fixing aperture and an articulation axis extending transversely of the hanger between the top flange portion and the back flange portion and being variable in location within the region defined by the length of said longitudinally elongated fixing aperture.

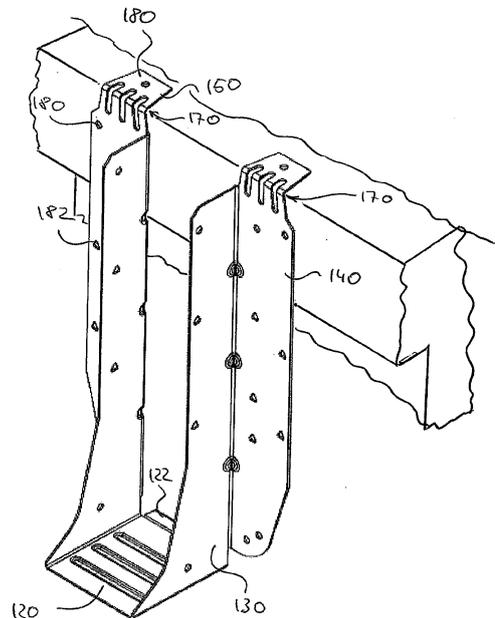


FIGURE 3

**EP 2 607 561 A3**



EUROPEAN SEARCH REPORT

Application Number  
EP 12 19 8114

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	GB 2 047 320 A (HYDRO AIR INTERNATIONAL LTD) 26 November 1980 (1980-11-26)	21,22	INV. E04B1/26
Y	* page 1 - page 2; figures 1-3 *	1-12,14, 15,17-20	ADD. E04B1/26
A	-----	13,16	
Y	US 3 036 347 A (JAMES FINDLETON RONALD) 29 May 1962 (1962-05-29)	1-12,14, 15,17-20	
	* column 3 - column 6; figures 1,7,10,11 *		
A	-----		
	AU 468 708 B2 (ARTHUR RAYMOND TURNER) 31 December 1975 (1975-12-31)	1,4-8, 11,14, 17,22	
	* page 2 - page 4; claims 1-5; figures 1-9 *		
	-----		
			TECHNICAL FIELDS SEARCHED (IPC)
			E04B
1 The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 23 May 2013	Examiner López-García, G
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 12 19 8114

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  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-05-2013

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2047320	A	26-11-1980	NONE	
-----				
US 3036347	A	29-05-1962	NONE	
-----				
AU 468708	B2	31-12-1975	NONE	
-----				

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82