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(54) **MODULAR SELF-BEARING CONSTRUCTION OF A LIFT SHAFT**

(57) A modular, self-supporting structure of a lift shaft comprising columns (1) and crossbeams (2) fixed to each other by connecting elements (4), comprising horizontal elements (41) with openings and a body (43) provided with at least one opening, wherein in the body (43), a vertical element (42) with openings (14) is arranged (14), the vertical element (42) being provided with a reinforced portion (13) with openings (14), wherein the outer surface (431) of the body (43) is connected to the horizontal elements (41) while the inner surface (432) of the body (43) is connected to the outer surface (421) of the vertical element (42), the inner surface (422) of which is connected to the reinforced portion (13) with the openings (14).

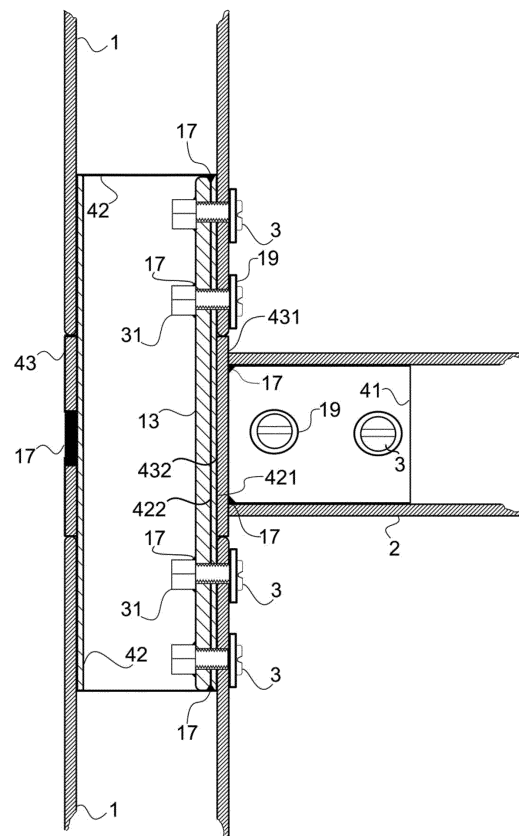


Fig. 2



EUROPEAN SEARCH REPORT

Application Number
EP 19 02 0367

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	WO 95/20082 A1 (HIGGINS GREGORY J [US]) 27 July 1995 (1995-07-27) * figures 2-5, 13 * * page 1, paragraph 1. * * page 12, paragraph 3. - paragraph 4. * * page 13, paragraph 2. - paragraph 4. * * page 14, paragraph 3. * * page 16, paragraph 3. * * page 17, paragraph 1. *	1-4,6,7,9	INV. E04F17/00 E04B1/24
Y	US 5 678 375 A (JUOLA TUOMO [FI]) 21 October 1997 (1997-10-21) * figure 2 * * column 4, line 37 - line 40 *	1-4,6,7,9	
Y	EP 0 672 475 A1 (DAIWA HOUSE IND [JP]; DAI ICHI HIGH FREQUENCY CO LTD [JP]) 20 September 1995 (1995-09-20) * figures 8a-8b * * column 18, line 27 - line 33 *	4,9	
			TECHNICAL FIELDS SEARCHED (IPC)
			E04F E04B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 November 2019	Examiner Estorgues, Marlène
CATEGORY OF CITED DOCUMENTS 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		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	

EPO FORM 1503 03/82 (P04C01)



Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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:

1-4, 6, 7, 9

☐ The present supplementary 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 (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

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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: 1-4, 6, 7, 9

Connector between column and beam of a supporting structure

2. claims: 5, 8

Connection mechanism of a filler onto a beam

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

EP 19 02 0367

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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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12-11-2019

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