

(19)



(11)

EP 2 003 085 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
22.12.2010 Bulletin 2010/51

(51) Int Cl.:
B66C 23/78 (2006.01)

(43) Date of publication A2:
17.12.2008 Bulletin 2008/51

(21) Application number: **08154651.7**

(22) Date of filing: **16.04.2008**

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

(71) Applicant: **EFFER S.p.A.**
38068 Roverto (TN) (IT)

(72) Inventor: **Zambelli, Gianni**
40010 Sala Bolognese (Bologna) (IT)

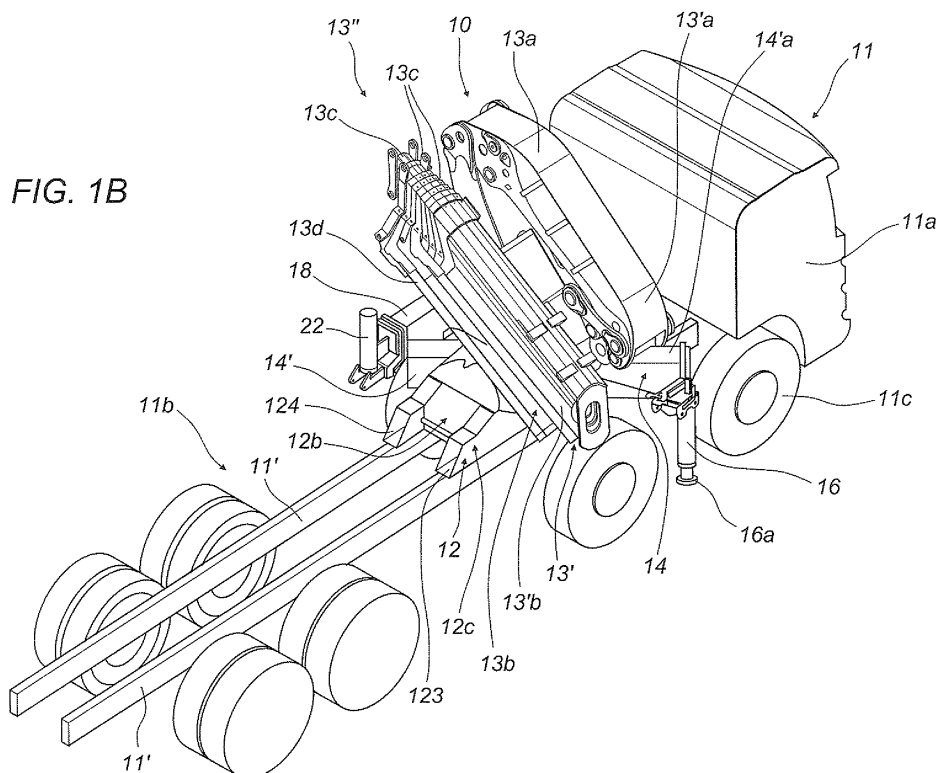
(74) Representative: **Fanzini, Valeriano**
Bugnion S.p.A.
Via di Corticella, 87
40128 Bologna (IT)

(30) Priority: **19.04.2007 IT BO20070290**

(54) Improved crane which can be mounted on a relative vehicle

(57) A crane (10) for lifting loads which can be mounted on a corresponding vehicle (11) having a longitudinal axis (L), in particular a truck, comprising a support base (12) of the crane mounted on the vehicle (11), from which extend vehicle stabilizing means comprising an extend-

ing arm (14) carrying the ground support means (16). The extending stabilizer arm (14) is fixed to the support base (12) and extends from the support base (12) oriented at an angle (A) with respect to the longitudinal direction (L) of the vehicle.



**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 08 15 4651

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	EP 1 454 872 A1 (PALFINGER AG [AT]) 8 September 2004 (2004-09-08) * paragraph [0011]; figure 1 * -----	1-5, 10-13, 18,27, 32,35,37	INV. B66C23/78
X	EP 0 146 791 A2 (HIAB EXPORT AS [DK]) 3 July 1985 (1985-07-03) * abstract; figures 1,3 * -----	1-5, 10-13, 27,32, 35,37	
X	CN 2 613 466 Y (ANHUI SANSE ILLUMINATION CO LT [CN]) 28 April 2004 (2004-04-28) * figures 1a-3b * -----	1-5, 10-13, 18,27, 32,35,37	
X	US 5 706 960 A (PITMAN RAYMOND F [US] ET AL) 13 January 1998 (1998-01-13) * figures * ----- -/--	1-5,26, 32	TECHNICAL FIELDS SEARCHED (IPC) B66C
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out. Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search: see sheet C			
Place of search Munich		Date of completion of the search 15 November 2010	Examiner Masset, Markus
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	

13

EPO FORM 1503 03.82 (P04E07)

Application Number
EP 08 15 4651

[illegible]



**INCOMPLETE SEARCH
SHEET C**

Application Number

EP 08 15 4651

Claim(s) completely searchable:

1-15, 18, 26-28, 31, 32, 35-37

Claim(s) not searched:

16, 17, 19-25, 29, 30, 33, 34, 38-47

Reason for the limitation of the search:

The applicant has not paid the fees for the claims 16, 17, 19-25, 29, 30, 33, 34 and 38-47.



Application Number

EP 08 15 4651

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):

18, 26-28, 31, 32, 35-37

- ☐ 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:

1-5, 10-15, 18, 26-28, 31, 32, 35-37

- ☐ 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:

- ☐ 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**

Application Number

EP 08 15 4651

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: 1-5

Stabilizer arm extending alongside driver's cab

2. claims: 1, 6-9(completely); 27, 28(partially)

Compact retractable stabilizer arm

3. claims: 1, 10-15(completely); 27, 28(partially)

Lifting boom

4. claims: 1, 18(completely); 27, 28(partially)

Stabilizer arm having a tail end

5. claims: 1, 26(completely); 27, 28(partially)

Stabilizer arm extending diagonally

6. claims: 1, 31, 32, 35-37

Rotating arm

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

EP 08 15 4651

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.

15-11-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1454872	A1	08-09-2004	AT 295330 T	15-05-2005
			DE 50300539 D1	16-06-2005
			DK 1454872 T3	05-09-2005
			ES 2242109 T3	01-11-2005
			JP 2004244221 A	02-09-2004
			KR 20040073973 A	21-08-2004
			US 2004175228 A1	09-09-2004

EP 0146791	A2	03-07-1985	AU 563659 B2	16-07-1987
			AU 3579084 A	20-06-1985
			DE 3470729 D1	01-06-1988
			DK 581283 A	17-06-1985
			JP 60218295 A	31-10-1985
			US 4643320 A	17-02-1987

CN 2613466	Y	28-04-2004	NONE	

US 5706960	A	13-01-1998	NONE	

DE 19736108	A1	25-02-1999	WO 9910212 A1	04-03-1999
			EP 1003655 A1	31-05-2000
			US 6276718 B1	21-08-2001

WO 2006040658	A1	20-04-2006	NONE	

DE 10032622	A1	17-01-2002	AT 260374 T	15-03-2004
			CN 1440364 A	03-09-2003
			WO 0208522 A2	31-01-2002
			EP 1299598 A2	09-04-2003
			ES 2213704 T3	01-09-2004
			JP 4035442 B2	23-01-2008
			JP 2004504241 T	12-02-2004
			TR 200400646 T4	21-06-2004
			US 2003038466 A1	27-02-2003
