

Title (en)

Variable reach crane jib with automatic counterbalancing device

Title (de)

Verstellbarer Kranausleger mit selbsttätiger Gewichtsausgleichsvorrichtung

Title (fr)

Flèche de grue à portée variable et à équilibrage automatique

Publication

**EP 1103512 B1 20040922 (FR)**

Application

**EP 00403274 A 20001123**

Priority

FR 9914819 A 19991125

Abstract (en)

[origin: EP1103512A1] The crane boom has a main arm (3) pivoting on a rotary head (1) and an additional arm (7) extending from the main arm and pivoted at its front end. A counter-weight (14) is articulated to the rear of the main arm. The additional arm and counterweight balancer are connected by a pulley system (10,10') at the front end of the main arm and a second pulley system (28,28') at the rear of the main arm. The pulley systems are connected by a cable which is controlled by a hydraulic cylinder.

IPC 1-7

**B66C 23/72**

IPC 8 full level

**B66C 23/70** (2006.01); **B66C 23/72** (2006.01)

CPC (source: EP US)

**B66C 23/72** (2013.01 - EP US)

Cited by

CN104310237A; CN106744454A; CN114538307A; CN105600690A; CN109678070A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1103512 A1 20010530; EP 1103512 B1 20040922**; AT E276965 T1 20041015; DE 60014008 D1 20041028; DE 60014008 T2 20050908; ES 2225054 T3 20050316; FR 2801576 A1 20010601; FR 2801576 B1 20020104; JP 2001180888 A 20010703; JP 3792503 B2 20060705; US 6494330 B1 20021217

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**EP 00403274 A 20001123**; AT 00403274 T 20001123; DE 60014008 T 20001123; ES 00403274 T 20001123; FR 9914819 A 19991125; JP 2000357373 A 20001124; US 71781600 A 20001121