

Title (en)  
Crane

Title (de)  
Kran

Title (fr)  
Grue

Publication  
**EP 1516849 A3 20060315 (DE)**

Application  
**EP 04020892 A 20040902**

Priority  
DE 20314503 U 20030918

Abstract (en)  
[origin: EP1516849A2] The crane has an upper structure (4) rotatable around a vertical axis (3), a jib (5) connected to luff around a horizontal axis (6), a luffing device (8-10) for the luffing up and down of the jib, and an operating ballast (7) to counteract the moment of the jib. An erection sub-frame (11) is fastened on the upper structure and/or on the operating ballast, projecting rearwards, and is connected to an erection ballast (16) to assist in the erecting of the jib. The erection sub-frame has means of connection (14) for the attachment of a mobile crane as ballast.

IPC 8 full level  
**B66C 23/74** (2006.01); **B66C 23/76** (2006.01)

CPC (source: EP US)  
**B66C 23/74** (2013.01 - EP US)

Citation (search report)

- [XA] EP 0779235 A2 19970618 - LANDRY CAMILE J
- [X] SU 1463705 A2 19890307 - V KT I MEKH MONTAZHNYKH SP STR [SU]
- [A] DE 1809988 A1 19700604 - KRUPP GMBH
- [A] US 3955684 A 19760511 - NOVOTNY CARL F

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 20314503 U1 20050127**; DE 502004003823 D1 20070628; EP 1516849 A2 20050323; EP 1516849 A3 20060315; EP 1516849 B1 20070516; US 2005061761 A1 20050324; US 7213716 B2 20070508

DOCDB simple family (application)  
**DE 20314503 U 20030918**; DE 502004003823 T 20040902; EP 04020892 A 20040902; US 94545404 A 20040920