

Title (en)  
LIFTING MEMBER WITH LOAD AND/OR STRESS MEASURING MEANS

Title (de)  
HUBGLIED MIT LAST- UND/ODER SPANNUNGSMESSMITTELN

Title (fr)  
ORGANE DE LEVAGE A MOYENS DE MESURE DE CHARGE ET/OU DE CONTRAINTES

Publication  
**EP 2019808 A1 20090204 (FR)**

Application  
**EP 07734655 A 20070524**

Priority  
• IB 2007001349 W 20070524  
• FR 0651916 A 20060524

Abstract (en)  
[origin: FR2901548A1] The unit (1) has a proximal part (1a) fixed to a lifting apparatus and a distal part (1b) connected to a load to be lifted. A longitudinal section (1c) is developed from the proximal part in a direction of the distal part and is elastically elongated under an action of a part of lifting effort. An optical fiber stress sensor (2) having reduced diameter is inserted into a longitudinal channel (1d) of the section and is fixed to a lateral wall of the channel. A connector (3) transmits signals from the sensor to a sensor signal reception and analyzing unit (4).

IPC 8 full level  
**B66C 13/16** (2006.01); **B66C 1/40** (2006.01); **B66C 1/66** (2006.01)

CPC (source: EP KR US)  
**B66C 1/34** (2013.01 - KR); **B66C 1/40** (2013.01 - EP KR US); **B66C 1/66** (2013.01 - KR); **B66C 1/663** (2013.01 - EP US);  
**B66C 13/16** (2013.01 - EP KR US)

Cited by  
DE102012003650B4; GB2517967A; GB2517967B; DE102012003650A1

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

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**FR 2901548 A1 20071130; FR 2901548 B1 20080725**; AT E520618 T1 20110915; AU 2007266739 A1 20071206; AU 2007266739 B2 20121115; CA 2653832 A1 20071206; CA 2653832 C 20140826; CN 101454235 A 20090610; CN 101454235 B 20130515; DK 2019808 T3 20111205; EP 2019808 A1 20090204; EP 2019808 B1 20110817; ES 2371681 T3 20120109; JP 2009537843 A 20091029; JP 4972686 B2 20120711; KR 101391272 B1 20140502; KR 20090027661 A 20090317; MY 146747 A 20120914; PT 2019808 E 20111125; TW 200815275 A 20080401; TW I388494 B 20130311; US 2010037700 A1 20100218; US 8276461 B2 20121002; WO 2007138418 A1 20071206

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