

Title (en)

EXTENDABLE BOOM FOR MINING VEHICLE AND MINING VEHICLE

Title (de)

AUSZIEHBARER AUSLEGER FÜR BERGBAUFahrzeuge UND BERGBAUFahrzeug

Title (fr)

FLÈCHE EXTENSIBLE POUR VÉHICULE D'EXPLOITATION MINIÈRE ET VÉHICULE D'EXPLOITATION MINIÈRE

Publication

**EP 4008881 A1 20220608 (EN)**

Application

**EP 20210930 A 20201201**

Priority

EP 20210930 A 20201201

Abstract (en)

An extendable boom (1) for a mining vehicle, comprising an outer boom (4), an inner boom (5), having a distal end (8) and a proximal end (7), arranged at least partly inside the outer boom (4), wherein the inner boom (5) is arranged to extend in axial direction out of the outer boom (4), cables (12) for operating the device. The inner boom (5) comprises a rear pulley (9) in proximity of the proximal end (7). The inner boom (5) comprises a front pulley mechanism (10), comprising a front pulley (11), at a distant from the rear pulley (9) towards the distal end (8). The cables (12) are routed within the inner boom (5) and the outer boom (4), wherein the cables (12) are arranged to extend from the distal end (8) towards the proximal end (7), looped around the rear pulley (9) towards the front pulley mechanism (10), looped around the front pulley (11) towards the proximal end.

IPC 8 full level

**E21C 35/00** (2006.01); **B66C 13/14** (2006.01); **B66C 23/70** (2006.01)

CPC (source: EP)

**B66C 13/14** (2013.01); **B66C 23/705** (2013.01); **E21C 35/00** (2013.01)

Citation (search report)

- [X] KR 20190068658 A 20190619 - JIN WOO SMC INC CO LTD [KR]
- [I] US 2003127408 A1 20030710 - SCHNEIDER WILLIAM D [US]
- [A] JP S55151800 U 19801101
- [A] US 2017149229 A1 20170525 - LI SHIH-HAO [TW], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 4008881 A1 20220608**

DOCDB simple family (application)

**EP 20210930 A 20201201**