

Title (en)

DEVICE FOR EXTENDING AND STORING HORIZONTAL BOOM

Title (de)

VORRICHTUNG ZUM AUSSCHIEBEN UND AUSLAGERN VON EINEM HORIZONTAL EN AUSLEGER

Title (fr)

DISPOSITIF D'EXTENSION ET DE STOCKAGE D'UNE FLECHE HORIZONTALE

Publication

EP 0728695 A4 19970604 (EN)

Application

EP 94931694 A 19941108

Priority

- JP 9401876 W 19941108
- JP 30227093 A 19931108

Abstract (en)

[origin: WO9513240A1] The invention relates to a device for extending and storing a horizontal boom, said apparatus enabling turning of the horizontal boom to a side surface of a vertical boom for storing in parallel with the latter, and easy extending of the same. Therefore, pin bores (6) are formed in brackets (5) secured to a tip end of the vertical boom (2), brackets (11) are secured to a support frame (10) mounted to the horizontal boom (3), pin bores (12) are formed longitudinally of the brackets (11), the pin bores (6) and the pin bores (12) are turnably connected to each other by connection pins (14), and a turning drive device (16) is provided on a center line of the connection pins (14).

IPC 1-7

B66C 23/26; **B66C 23/42**; **B66C 23/68**; **B66C 23/70**

IPC 8 full level

B66C 23/26 (2006.01); **B66C 23/42** (2006.01); **B66C 23/68** (2006.01); **B66C 23/687** (2006.01); **B66C 23/70** (2006.01)

CPC (source: EP KR)

B66C 13/20 (2013.01 - KR); **B66C 23/42** (2013.01 - EP KR); **B66C 23/68** (2013.01 - EP KR); **B66C 23/702** (2013.01 - EP); **B66C 2700/0357** (2013.01 - KR)

Citation (search report)

- [A] EP 0254510 A1 19880127 - TADANO TEKKOSHO KK [JP]
- [A] EP 0084981 A2 19830803 - KOBE STEEL LTD [JP]
- [A] FR 2661665 A1 19911108 - PPM SA [FR]
- See references of WO 9513240A1

Cited by

EP0928770A1; US11702324B2; EP3793929B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9513240 A1 19950518; CN 1038574 C 19980603; CN 1136798 A 19961127; DE 69427033 D1 20010510; DE 69427033 T2 20011025; EP 0728695 A1 19960828; EP 0728695 A4 19970604; EP 0728695 B1 20010404; JP 3258472 B2 20020218; JP H07125986 A 19950516; KR 100332941 B1 20021123; KR 960705731 A 19961108; TW 298901 U 19970221

DOCDB simple family (application)

JP 9401876 W 19941108; CN 94194367 A 19941108; DE 69427033 T 19941108; EP 94931694 A 19941108; JP 30227093 A 19931108; KR 19960702373 A 19960506; TW 85211191 U 19941119