

Title (en)
TELESCOPIC BOOM

Title (de)
TELESKOPPAUSLEGER

Title (fr)
FLÈCHE TÉLESCOPIQUE

Publication
EP 4151584 A4 20240529 (EN)

Application
EP 21821923 A 20210607

Priority
• JP 2020099619 A 20200608
• JP 2021021572 W 20210607

Abstract (en)
[origin: EP4151584A1] [Problem] To provide a lightweight and high-rigidity telescopic boom in which strain during manufacturing is suppressed.
[Solution] In a telescopic boom 13, a plurality of booms forms a telescope structure, and the telescopic boom 13 includes a boom fixing mechanism 15 that fixes a top boom 21 disposed relatively inside at a predetermined position with respect to a first intermediate boom 22 disposed relatively outside. The boom fixing mechanism 15 includes a boom fixing pin 26 that is provided to the top boom 21 and advances and retreats with respect to the first intermediate boom 22, a fixing boss 32 that is provided to the first intermediate boom 22 and into which the boom fixing pin 26 is inserted and extracted, and a gap maintaining member 90 that is provided to the fixing boss 32 and protrudes outward to maintain a gap between the first intermediate boom 22 and a second intermediate boom 23 disposed further outside.

IPC 8 full level
B66C 23/687 (2006.01); **B66C 23/693** (2006.01); **B66C 23/70** (2006.01)

CPC (source: EP)
B66C 23/707 (2013.01); **B66C 23/708** (2013.01)

Citation (search report)
• [XYI] US 6206213 B1 20010327 - CONRAD FRANK [DE]
• [XI] DE 202014002187 U1 20140626 - TADANO FAUN GMBH [DE]
• [X] EP 3053869 A1 20160810 - TADANO LTD [JP]
• [Y] JP S5332548 A 19780327 - NIPPON GUROOBU KK
• [A] DE 29824867 U1 20030306 - DEMAG MOBILE CRANES GMBH & CO [DE]
• See references of WO 2021251338A1

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

DOCDB simple family (publication)
EP 4151584 A1 20230322; EP 4151584 A4 20240529; CN 115515887 A 20221223; JP 2021193055 A 20211223

DOCDB simple family (application)
EP 21821923 A 20210607; CN 202180033214 A 20210607; JP 2021095041 A 20210607