Title (en)
LOCKING STRUCTURE FOR EXTENSIONABLELADDER

Title (de)
VERRIEGELUNGSSTRUKTUR FÜR EINE AUSZIEHBARE LEITER

Title (fr)
STRUCTURE DE VERROUILLAGE POUR UNE ÉCHELLE EXTENSIBLE

Publication
EP 2634360 A4 20141119 (EN)

Application
EP 11835433 A 20111011

Priority
• CN 201010524708 A 20101028
• CN 2011001700 W 20111011

Abstract (en)
[origin: EP2634360A1] A locking mechanism for an extending ladder, the extending ladder comprises a plurality of telescopically collapsible columns (1) and a plurality of rungs (2), the locking mechanism comprises: a connection sleeve (3) for connecting the column (1) with corresponding rung (2); a plug pin (4) disposed inside the connection sleeve (3); a push button (6) and an automatic unlocking switch (7). The automatic unlocking switch (7) is rotatably disposed, a plughole (31) is provided on the bottom surface of the connection sleeve (3), a pushing protrusion (32) is provided protruding upward on the top surface of the connection sleeve (3). The locking mechanism not only capable of unlocking the single column step by step, but also automatically unlocking the adjacent upper locking mechanism after a lower locking mechanism is unlocked.

IPC 8 full level
E06C 7/06 (2006.01); E06C 1/12 (2006.01)

CPC (source: EP)
E06C 1/125 (2013.01); E06C 7/06 (2013.01)

Citation (search report)
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• [Y] WO 2008064532 A1 20080605 - WANG WANXING [CN]
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Designated contracting state (EPC)
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EP 2634360 A1 20130904; EP 2634360 A4 20141119; CN 102003136 A 20110406; CN 102003136 B 20120912; WO 2012055159 A1 20120503

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