

Title (en)

LOCKING STRUCTURE FOR EXTENSIONABLE LADDER

Title (de)

VERRIEGELUNGSSTRUKTUR FÜR EINE AUSZIEHBARE LEITER

Title (fr)

STRUCTURE DE VERROUILLAGE POUR UNE ÉCHELLE EXTENSIBLE

Publication

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Application

EP 11835433 A 20111011

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Abstract (en)

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

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CPC (source: EP)

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Cited by

EP3211174A1; US2019055783A1; WO2017151558A1; US10995547B2; WO2016028147A2; US10161184B2; EP3581754A1

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