

Title (en)  
Ladder with a locking mechanism

Title (de)  
Leiter mit einer Sperreinrichtung

Title (fr)  
Échelle avec un dispositif de blocage

Publication  
**EP 1843005 A1 20071010 (EN)**

Application  
**EP 06112308 A 20060406**

Priority  
EP 06112308 A 20060406

Abstract (en)  
A locking mechanism for a collapsible ladder (1) comprising several ladder sections, each ladder section comprising two ladder bars (2, 3) arranged parallelly to each other and interconnected at one end by a rung to form a ladder section, and where the locking mechanism comprises retaining mechanisms (41) provided on each ladder bar (2, 3), adjacent the upper end of the ladder bar (2, 3) and a first locking hole (34) adjacent the lower end of the ladder bar (2, 3), and where each retaining mechanism (41) comprises a locking pin (24) being spring biased towards an extended position in order to engage the first locking hole (34) provided in the ladder bar (2, 3) of a ladder section positioned thereabove, each ladder bar (2, 3) being provided with a second locking hole (34b) adjacent the lower end of the ladder bar (2, 3), below the first locking hole (34).

IPC 8 full level  
**E06C 1/12** (2006.01); **E06C 1/22** (2006.01)

CPC (source: EP)  
**E06C 1/125** (2013.01); **E06C 1/22** (2013.01)

Citation (search report)  
• [A] US 5743355 A 19980428 - MCDONNELL CHARLES A [US], et al  
• [A] US 2004195043 A1 20041007 - JOHANSSON KJELL [SE]  
• [DA] EP 0527766 A1 19930224 - SAFESCAPE LTD [GB]

Cited by  
CN106837153A; NL2008496C2; WO2014139940A1; DE202011051394U1; WO2012104238A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1843005 A1 20071010; EP 1843005 B1 20081217**; AT E417990 T1 20090115; CN 101415903 A 20090422; CN 101415903 B 20110601; DE 602006004305 D1 20090129; DK 1843005 T3 20090316; ES 2318673 T3 20090501; HK 1127106 A1 20090918; NO 20084636 L 20081104; NO 339768 B1 20170130; WO 2007115956 A1 20071018

DOCDB simple family (application)  
**EP 06112308 A 20060406**; AT 06112308 T 20060406; CN 200780011816 A 20070402; DE 602006004305 T 20060406; DK 06112308 T 20060406; EP 2007053135 W 20070402; ES 06112308 T 20060406; HK 09106092 A 20090707; NO 20084636 A 20081104