

Title (en)
LOCKING DEVICE

Title (de)
VERRIEGELUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE VERROUILLAGE

Publication
EP 2890627 B1 20160727 (DE)

Application
EP 13753168 A 20130821

Priority
• DE 102012215546 A 20120831
• EP 2013067371 W 20130821

Abstract (en)
[origin: WO2014033025A1] The invention relates to a locking device for supporting members (10) for a mobile machine, which supporting members (10) are arranged on a chassis or load-bearing frame and can be extended, pivoted or telescoped from a retracted transport position into a deployed working position, having a locking bolt (20) which can be displaced between a locked position and an unlocked position in a housing (18) which is fixed to the frame and is arranged transversely with respect to the pulling-out direction of the supporting member (10), which locking bolt (20) is prestressed in the direction of the locked position under the action of a spring, having an actuating member (34) which displaces the locking bolt (20) between the locked position and the unlocked position, and having a latching and guiding member (24, 26, 28) for the locking bolt, which latching and guiding member (24, 26, 28) is arranged rigidly on the supporting member (10), wherein the latching and guiding member (24, 26, 28) has a guiding curve (38, 40, 42) which pushes the locking bolt (20) into a release position, and wherein the locking bolt (20) can be moved in the release position automatically into the locked position thereof. In order for it to be possible to perform automatic blocking in different, partially extended positions of the supporting member (10) in the case of limited spatial conditions, it is proposed according to the invention that at least two latching and guiding members (24, 26, 28) are provided, of which one extends without interruption between a first latching position (A) for the locking bolt (20) in the region of the retracted transport position of the supporting member (10) and a second latching position (B) for the locking bolt (20) in the region of the completely extended, pivoted-out or telescoped working position of the supporting member (10), and the second latching and guiding member has a latching position (C, D) which is arranged between the first and second latching position.

IPC 8 full level
B66C 23/78 (2006.01)

CPC (source: CN EP)
B66C 23/78 (2013.01 - CN EP)

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)
WO 2014033025 A1 20140306; CN 104364185 A 20150218; CN 104364185 B 20160928; DE 102012215546 A1 20140306; EP 2890627 A1 20150708; EP 2890627 B1 20160727; KR 102000327 B1 20190715; KR 20150051985 A 20150513

DOCDB simple family (application)
EP 2013067371 W 20130821; CN 201380029224 A 20130821; DE 102012215546 A 20120831; EP 13753168 A 20130821; KR 20157000082 A 20130821