

Title (en)  
SPREADER

Title (de)  
STREUER

Title (fr)  
PALONNIER

Publication  
**EP 2665673 A4 20140806 (EN)**

Application  
**EP 11849406 A 20111208**

Priority  
• FI 20106315 A 20101213  
• FI 2011051088 W 20111208

Abstract (en)  
[origin: WO2012080567A1] The spreader has a middle frame (10), at least one first telescopic arm (50) protruding in a first direction from the middle frame, in the end of which telescopic arm there is a first end frame (70), and at least one second telescopic arm (51) protruding in a second direction from the middle frame, in the end of which telescopic arm there is a second end frame (71). The end frames have gripping means (100) for gripping a container. The telescopic arms can be moved into a first position, where the distance between said gripping means of the first end frame and second end frame is at its shortest. In this position the end frames are at least partly underneath the middle frame, whereby they do not significantly increase the total length of the spreader. The middle frame and telescopic arms arranged in the middle frame can thus have been made longer, which increases the length of the telescopic arms in the protruding position and thus makes possible the handling of longer containers. In the first position the shortest distance between the gripping means of the first end frame and the gripping means of the second end frame can be smaller than the length of the middle frame. The spreader can be used to handle containers with a length of 20-48 feet.

IPC 8 full level  
**B66C 1/10** (2006.01); **B66C 1/22** (2006.01); **B66C 1/66** (2006.01); **B66F 9/18** (2006.01)

CPC (source: EP FI)  
**B66C 1/101** (2013.01 - EP); **B66C 1/663** (2013.01 - EP FI)

Citation (search report)  
• [X] US 3627370 A 19711214 - WHITEMAN DONALD R, et al  
• [X] US 3558176 A 19710126 - FATHAUER JACK E, et al  
• [X] US 4396218 A 19830802 - STEVENS ALAN R  
• [A] AT 346768 B 19781127 - GFOELLNER LEOPOD JUN [AT]  
• [A] GB 2332188 A 19990616 - SUMITOMO HEAVY INDUSTRIES [JP]  
• See references of WO 2012080567A1

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 2012080567 A1 20120621**; EP 2665673 A1 20131127; EP 2665673 A4 20140806; FI 20106315 A0 20101213; FI 20106315 A 20120614

DOCDB simple family (application)  
**FI 2011051088 W 20111208**; EP 11849406 A 20111208; FI 20106315 A 20101213