

Title (en)  
CONTACT-FREE RETAINER FOR AN OMEGA ASSEMBLY FOR MATERIAL BEING BOUND

Title (de)  
KONTAKTFREIE HALTERUNG FÜR EIN BINDEGUT - OMEGA-MONTAGE

Title (fr)  
MAINTIEN SANS CONTACT D'UN MATÉRIEL À LIGATURER - MONTAGE OMÉGA

Publication  
**EP 3465855 A1 20190410 (DE)**

Application  
**EP 17730386 A 20170522**

Priority  
• DE 202016102746 U 20160523  
• EP 2017062300 W 20170522

Abstract (en)  
[origin: WO2017202783A1] The invention relates to a securing system having: at least one cable tie (13) which comprises i) a toothed cable tie strip (17) and ii) a cable tie head (16) that has a latching arrangement for latching to said toothed cable tie strip (17); and at least one retainer device (1) that is separate from the cable tie (13), said cable tie (13), when in the final assembled state, being positioned relative to the retainer device (1) such that the material being bound (39) which is held by the cable tie (13) is arranged to be spaced apart from the retainer device (1), in order to reduce abrasion of said material being bound (39). The invention also relates to a cable tie (13) and a retainer device (1) for such a securing system, and to a corresponding method of assembly.

IPC 8 full level  
**H02G 3/32** (2006.01); **B65D 63/10** (2006.01); **F16L 3/233** (2006.01)

CPC (source: EP KR US)  
**B65D 63/1027** (2013.01 - EP KR US); **B65D 63/1072** (2013.01 - EP KR US); **F16B 2/08** (2013.01 - EP KR US);  
**F16B 21/065** (2013.01 - EP KR US); **F16B 21/086** (2013.01 - EP KR US); **H02G 3/0456** (2013.01 - US); **H02G 3/32** (2013.01 - EP KR US);  
**B65D 2563/108** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2017202784A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 202016102746 U1 20170825**; CN 109155514 A 20190104; CN 109155514 B 20211008; CN 109155515 A 20190104;  
CN 109155515 B 20201023; EP 3465854 A1 20190410; EP 3465855 A1 20190410; JP 2019516635 A 20190620; JP 2019524044 A 20190829;  
JP 6997110 B2 20220117; KR 102315157 B1 20211019; KR 20190006018 A 20190116; KR 20190008943 A 20190125;  
US 11434055 B2 20220906; US 2019218006 A1 20190718; US 2020223606 A1 20200716; WO 2017202783 A1 20171130;  
WO 2017202784 A1 20171130

DOCDB simple family (application)  
**DE 202016102746 U 20160523**; CN 201780031623 A 20170522; CN 201780031652 A 20170522; EP 17725938 A 20170522;  
EP 17730386 A 20170522; EP 2017062299 W 20170522; EP 2017062300 W 20170522; JP 2018561482 A 20170522;  
JP 2018561716 A 20170522; KR 20187037013 A 20170522; KR 20187037014 A 20170522; US 201716302137 A 20170522;  
US 201716303382 A 20170522