

Title (en)  
BLADE ARRANGEMENT

Title (de)  
SCHAUFELANORDNUNG

Title (fr)  
AGENCEMENT D'AUBES

Publication  
**EP 2723991 B1 20150930 (DE)**

Application  
**EP 12748427 A 20120814**

Priority  
• EP 11178635 A 20110824  
• EP 2012065840 W 20120814  
• EP 12748427 A 20120814

Abstract (en)  
[origin: EP2562356A1] The arrangement has a retaining groove arranged in a shovel carrier. Longitudinally extending projections are arranged at side walls of the groove for forming undercuts. Each of shovels is pressed against the projections by a plate-shaped element (46) that is arranged between a shovel base lower side and a groove ground of the groove. The element includes seams (86) arranged below the blade for pressing the shovel in the groove. The element is fully covered in a longitudinal direction of the groove and partially covers a shovel base (50).

IPC 8 full level  
**F01D 5/30** (2006.01); **F01D 5/32** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP RU US)  
**F01D 5/3038** (2013.01 - EP RU US); **F01D 5/32** (2013.01 - EP US); **F01D 5/323** (2013.01 - US); **F01D 5/326** (2013.01 - EP US);  
**F04D 29/322** (2013.01 - EP US)

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)  
**EP 2562356 A1 20130227**; BR 112014003884 A2 20170314; BR 112014003884 B1 20211103; BR 112014003884 B8 20230425;  
CA 2846053 A1 20130228; CA 2846053 C 20191126; CN 104053858 A 20140917; CN 104053858 B 20160217; EP 2723991 A1 20140430;  
EP 2723991 B1 20150930; ES 2558014 T3 20160201; JP 2014527594 A 20141016; JP 5922237 B2 20160524; KR 101939866 B1 20190117;  
KR 20140068077 A 20140605; MX 2014002130 A 20140327; MX 340744 B 20160705; RU 2014111052 A 20150927; RU 2603696 C2 20161127;  
TW 201326537 A 20130701; TW I606175 B 20171121; US 2014234111 A1 20140821; US 9708919 B2 20170718; WO 2013026735 A1 20130228

DOCDB simple family (application)  
**EP 11178635 A 20110824**; BR 112014003884 A 20120814; CA 2846053 A 20120814; CN 201280041238 A 20120814;  
EP 12748427 A 20120814; EP 2012065840 W 20120814; ES 12748427 T 20120814; JP 2014526443 A 20120814; KR 20147007253 A 20120814;  
MX 2014002130 A 20120814; RU 2014111052 A 20120814; TW 101130348 A 20120822; US 201214239138 A 20120814