

Title (en)  
SUSPENSION ARRANGEMENT OF UNDERBODY GRADER USED IN A VEHICLE, WORK MACHINE OR SIMILAR, AS WELL AS VEHICLE,  
WORK MACHINE OR SIMILAR

Title (de)  
AUFHÄNGUNGSANORDNUNG FÜR EIN FAHRZEUG, EINE ARBEITSMASCHINE ODER ÄHNLICHE FAHRZEUGE, UND EINE  
ARBEITSMASCHINE ODER ÄHNLICHE FAHRZEUGE

Title (fr)  
AGENCEMENT DE SUSPENSION DE NIVELEUSE SOUS-CORPS UTILISÉE DANS UN VÉHICULE, UNE MACHINE DE TRAVAIL OU  
SIMILAIRE, AINSI QU'UN VÉHICULE, UNE MACHINE DE TRAVAIL OU SIMILAIRE

Publication  
**EP 3530808 A1 20190828 (EN)**

Application  
**EP 19156332 A 20190211**

Priority  
FI 20185161 A 20180222

Abstract (en)  
The suspension arrangement of a blade (4) of an underbody grader (21) used in a vehicle, work machine or similar comprises:- turning devices (5) for turning the blade (4) from the working position (I) to the transport position (II) and back; and- transfer devices (6, 7, 9, 14), which have been arranged# to reduce the delivery angle of the blade before the blade (4) is turned from the working position (I) to the transport position (II) or at the same time as when the blade (4) is being turned from the working position (I) to the transport position (II), and# to increase the delivery angle of the blade after the blade (4) has been turned from the transport position (II) to the working position (I) or at the same time as when the blade (4) is being turned from the transport position (II) to the working position (I).The transfer devices (6, 7, 14) have been adapted to transfer the turning joint (14) of the blade (4) to the first lateral direction, in which case the blade (4) rotates with respect to one joint (9) reducing the delivery angle, and to a second lateral direction, in which case the blade (4) rotates with respect to a second joint (9) increasing the delivery angle.The room for movement of the transferable turning joint (14) has been implemented in a form-restricted member (7).Also a parallel independent claim for a vehicle, work machine or similar.

IPC 8 full level  
**E01H 5/06** (2006.01); **E02F 3/76** (2006.01)

CPC (source: EP FI)  
**E01H 5/06** (2013.01 - EP FI); **E02F 3/76** (2013.01 - FI); **E02F 3/7645** (2013.01 - EP); **E02F 3/7654** (2013.01 - EP)

Citation (search report)  
• [XDAI] EP 3173536 A1 20170531 - PAJAKULMA OY [FI]  
• [A] US 6324775 B1 20011204 - HARNOIS NORMAND [CA], et al  
• [A] US 2003188461 A1 20031009 - VERMEULEN DAVID M [US], et al

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)  
**EP 3530808 A1 20190828**; FI 128021 B 20190815; FI 20185161 A1 20190815

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