

Title (en)  
GPS GRADER

Title (de)  
GPS-GRADER

Title (fr)  
NIVELEUSE GPS

Publication  
**EP 3830348 A4 20220511 (EN)**

Application  
**EP 19848390 A 20190804**

Priority  

- US 201816055094 A 20180804
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- US 2019045034 W 20190804

Abstract (en)  
[origin: WO2020033278A1] A method of stabilizing a small to mid-sized skid steer vehicles (12) used to grade earth using a dozer blade (46) in conjunction with GPS (42) automatic grade control equipment. The main arm (48) of the skid steer is retained at a specific height and the hydraulic (32) controlling the main arm is limited. The height of the dozer blade is raised and lowered by affecting the pitch axis of movement of the blade (46) and not by raising and lowering the main arm (48). The device is most suited to skid steer vehicles capable of using a variety of interchangeable front end accessories in addition to a dozer blade.

IPC 8 full level  
**E02F 3/34** (2006.01); **E02F 3/38** (2006.01); **E02F 3/43** (2006.01); **E02F 3/76** (2006.01); **E02F 3/84** (2006.01); **E02F 9/20** (2006.01)

CPC (source: EP)  
**E02F 3/3414** (2013.01); **E02F 3/7631** (2013.01); **E02F 3/847** (2013.01)

Citation (search report)  

- [Y] US 2009183886 A1 20090723 - ARMAS DAVID [US]
- [Y] US 5169277 A 19921208 - ORSER LLOYD [CA], et al
- [Y] US 2010143086 A1 20100610 - YASUDA TOYOAKI [JP], et al
- [Y] US 2016053459 A1 20160225 - WEBB ADRIAN J [GB], et al
- See references of WO 2020033278A1

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 2020033278 A1 20200213**; AU 2019318756 A1 20210225; AU 2019318756 B2 20211111; CA 3108772 A1 20200213; CA 3108772 C 20230627; EP 3830348 A1 20210609; EP 3830348 A4 20220511; NZ 772580 A 20230127

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**US 2019045034 W 20190804**; AU 2019318756 A 20190804; CA 3108772 A 20190804; EP 19848390 A 20190804; NZ 77258019 A 20190804