

Title (en)  
TRANSMISSION DOWNSHIFT CONTROL SYSTEM

Title (de)  
STEUERSYSTEM ZUM HERUNTERSCHALTEN EINES GETRIEBES

Title (fr)  
SYSTÈME DE COMMANDE DE RÉTROGRADATION POUR TRANSMISSION

Publication  
**EP 2235402 A4 20120118 (EN)**

Application  
**EP 09708678 A 20090129**

Priority  
• US 2009032398 W 20090129  
• US 678708 P 20080131

Abstract (en)  
[origin: WO2009099884A2] A power train for a machine is provided having a transmission including a plurality of gears configured to produce multiple output ratios when selectively engaged. The power train also has at least one sensor configured to sense at least one parameter indicative of a condition requiring a disablement of a gear output ratio during a downshifting event. In addition, the power train has a controller configured to regulate the transmission in either a first or a second mode in response to the at least one parameter. At least one of the gear output ratios is disabled during downshifting events occurring while the controller regulates the transmission in the first mode. Furthermore, all gear output ratios are available during downshifting events occurring while the controller regulates the transmission in the second mode.

IPC 8 full level  
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CPC (source: EP)  
**F16H 61/0213** (2013.01); **F16H 2059/0252** (2013.01); **F16H 2061/0444** (2013.01)

Citation (search report)  
• [X] EP 1070880 A1 20010124 - EATON CORP [US]  
• [X] US 6146310 A 20001114 - JANECKE DANIEL P [US]  
• [X] EP 0695893 A2 19960207 - EATON CORP [US]  
• [X] EP 0578398 A2 19940112 - EATON CORP [US]  
• [X] GB 2385894 A 20030903 - KOMATSU MFG CO LTD [JP]  
• See references of WO 2009099884A2

Designated contracting state (EPC)  
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 SE SI SK TR

DOCDB simple family (publication)  
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