

Title (en)  
Work vehicle with turning upper structure

Title (de)  
Arbeitsfahrzeug mit drehbarer oberer Struktur

Title (fr)  
Véhicule de travail avec structure supérieure tournante

Publication  
**EP 1319763 A1 20030618 (EN)**

Application  
**EP 02027168 A 20021205**

Priority  
JP 2001379672 A 20011213

Abstract (en)  
The pump discharge volumetric flow of a variable delivery oil pressure pump (12) is rapidly increased when the vehicle's working machine starts working to improve the machine's action efficiency and is slowly increased when the vehicle starts traveling to diminish the shock thereto. An arrangement is thus provided including a torque control valve (21) for controlling the pump discharge volumetric flow of the pump (12), an electromagnetic proportional pressure reducing valve (23) for applying a pilot pressure to the torque control valve (21) and a controller (28) for controlling the current to energize the solenoid (23a) of the electromagnetic proportional pressure reducing valve (23). When a machine control valve (14) is exclusively operated, the controller (28) rapidly changes the current to the solenoid (23a) of the electromagnetic proportional control valve (23) to rapidly increase the pump discharge volumetric flow. And, when the vehicle traveling motion control valve (13) is operated, it slowly changes the energizing current to slowly increase the pump discharge volumetric flow. <IMAGE>

IPC 1-7  
**E02F 9/22**

IPC 8 full level  
**E02F 9/20** (2006.01); **E02F 9/22** (2006.01); **F15B 11/02** (2006.01); **F15B 11/04** (2006.01)

CPC (source: EP KR)  
**E02F 9/20** (2013.01 - KR); **E02F 9/2207** (2013.01 - EP); **E02F 9/2235** (2013.01 - EP); **E02F 9/2296** (2013.01 - EP); **F02D 41/021** (2013.01 - EP)

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• [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 01 28 February 1995 (1995-02-28)

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