

Title (en)  
LOADER

Title (de)  
LADER

Title (fr)  
CHARGEUSE

Publication  
**EP 1954888 A1 20080813 (EN)**

Application  
**EP 05819240 A 20051110**

Priority  
EP 2005013381 W 20051110

Abstract (en)  
[origin: WO2007054123A1] There is described a loader (10) comprising a vehicle (20) including a structural frame (30) and an elongate boom arm (40). The boom arm (40) is pivotally mounted at its first end to the frame (30) and has at its second end an assembly (200, 230, 250) for receiving a tool (310, 1020). The loader (10) includes actuators (60, 300) to actuate the boom arm (40) and its associated assembly (200, 230, 250). The loader (10) also includes a control unit (400) provided with user operable controls (420, 700, 710) for controlling position and orientation of the boom arm (40) and its associated assembly (200, 230, 260). The actuators (60, 300) integrally incorporate therein magnetic sensors (600, 610) operable to sense longitudinal extension of said actuators (60, 300) and thereby generate actuator feedback signals (740, 750) indicative of said longitudinal extension. The control unit (400) processes said actuator feedback signals (740, 750) in a feedback control to render said position and orientation of the boom arm (40) and its associated assembly (200, 230, 260) adjustable using said user operable controls (420, 700, 710). Sensing a rotation rate of vehicle engine (25) providing power to the actuators (60, 300) is employed to modify the feedback control to improve operating stability of the loader (10).

IPC 8 full level  
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