

Title (en)  
AUTONOMOUS LOADING VEHICLE CONTROLLER

Title (de)  
STEUERGERÄT FÜR AUTONOMES LADEFAHRZEUG

Title (fr)  
DISPOSITIF DE COMMANDE DE VÉHICULE À CHARGEMENT AUTONOME

Publication  
**EP 3102744 A1 20161214 (EN)**

Application  
**EP 15740514 A 20150123**

Priority

- US 201461931243 P 20140124
- US 201462033904 P 20140806
- CA 2015000044 W 20150123

Abstract (en)  
[origin: WO2015109392A1] Provided are dig controller and dig control method embodiments for an autonomous loading vehicle (ALV) used in applications such as mining, construction, and exploration. Embodiments may comprise at least one controller that controls a bucket and/or the ALV in accordance with at least one sensor signal, wherein the at least one sensor signal is representative of interaction between the bucket and the rock pile during a dig. Some embodiments include at least one admittance controller and optionally at least one iterative learning controller (ILC) that uses feedback from at least one previous dig to modify the at least one sensor signal provided to the at least one controller.

IPC 8 full level  
**E02F 9/20** (2006.01); **E21C 27/30** (2006.01)

CPC (source: EP RU)  
**E02F 3/434** (2013.01 - EP); **E02F 9/20** (2013.01 - RU); **E02F 9/2029** (2013.01 - EP); **E02F 9/205** (2013.01 - EP); **E02F 9/265** (2013.01 - EP)

Cited by  
EP4219844A4

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)  
**WO 2015109392 A1 20150730**; AU 2015208631 A1 20160728; AU 2015208631 B2 20190725; CA 2935576 A1 20150730; CA 2935576 C 20220802; CL 2016001684 A1 20161118; EP 3102744 A1 20161214; EP 3102744 A4 20180307; EP 3102744 B1 20230705; EP 3102744 C0 20230705; MX 2016008819 A 20160908; RU 2016134403 A 20180301; RU 2016134403 A3 20180821; RU 2703086 C2 20191015

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**CA 2015000044 W 20150123**; AU 2015208631 A 20150123; CA 2935576 A 20150123; CL 2016001684 A 20160630; EP 15740514 A 20150123; MX 2016008819 A 20150123; RU 2016134403 A 20150123