

Title (en)  
Toy vehicle with a tactile response

Title (de)  
Spielzeugfahrzeug mit einer Berührungsreaktion

Title (fr)  
Véhicule jouet avec une réponse tactile

Publication  
**EP 2937120 A1 20151028 (EN)**

Application  
**EP 14183577 A 20140904**

Priority  
• US 201461983189 P 20140423  
• US 201414332599 A 20140716  
• US 201414451685 A 20140805

Abstract (en)  
In one embodiment there is a toy vehicle having a motor configured to cause a motion of an element of the toy. The motion of the element further accessible for manipulation by a human to in turn rotate the motor. The toy vehicle further having a processor configured to detect a back electromotive force ("EMF") voltage generated by the rotation of the motor due to the manipulation by a human, and the processor being further configured to include at least a sleep state and a wake state. The processor have a function configured to transition between the sleep state and the wake state when the detected back EMF voltage reaches a predetermined value.

IPC 8 full level  
**A63H 17/26** (2006.01); **A63H 29/22** (2006.01)

CPC (source: EP)  
**A63H 17/26** (2013.01); **A63H 29/22** (2013.01)

Citation (search report)  
• [X] EP 0567695 A1 19931103 - SEGA ENTERPRISES KK [JP], et al  
• [A] EP 2241359 A2 20101020 - CEPIA LLC [US]  
• [A] US 2006099882 A1 20060511 - ECKERMAN SCOTT [US], et al  
• [A] CN 203264272 U 20131106 - GUANGDONG YINRUN IND CO LTD

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)  
**EP 2937120 A1 20151028; EP 2937120 B1 20160615**; CN 105283234 A 20160127; CN 105283234 B 20170707; DK 2937120 T3 20160912; ES 2586944 T3 20161019; MX 2016009680 A 20170501; WO 2015163933 A1 20151029

DOCDB simple family (application)  
**EP 14183577 A 20140904**; CN 201480001133 A 20140819; DK 14183577 T 20140904; ES 14183577 T 20140904; MX 2016009680 A 20140819; US 2014051577 W 20140819