

Title (en)  
Toy vehicle launching apparatus

Title (de)  
Spielfahrzeug-Freigabevorrichtung

Title (fr)  
Appareil de lancement de jouets automobiles

Publication  
**EP 2108420 A1 20091014 (EN)**

Application  
**EP 09156672 A 20090330**

Priority  
JP 2008100114 A 20080408

Abstract (en)  
Disclosed is a toy vehicle accelerating apparatus of a travelling toy, the toy vehicle accelerating apparatus including: a vehicle body including a tunnel-like passage piercing the vehicle body in a front-back direction to allow a toy vehicle to pass through the passage; a drive roller, at least a part of which projects to the passage to press the toy vehicle passing through the passage; a roller driving section to give a rotative force for accelerating the toy vehicle to the drive roller; and a power source for the roller driving section, wherein the toy vehicle accelerating apparatus accelerates the toy vehicle entering the passage from one side thereof with the drive roller to discharge the toy vehicle from the other side of the passage.

IPC 8 full level  
**A63H 18/14** (2006.01); **A63H 17/26** (2006.01)

CPC (source: EP US)  
**A63H 17/26** (2013.01 - EP US); **A63H 18/14** (2013.01 - EP US)

Citation (applicant)

- US 5299969 A 19940405 - ZARUBA JOHN V [US]
- US 5899789 A 19990504 - REHKEMPER JEFFREY G [US], et al
- US 6695675 B1 20040224 - NGAN ROGER [US]

Citation (search report)

- [A] US 5052972 A 19911001 - SUIMON YOSHIO [JP], et al
- [A] US 6089951 A 20000718 - OSTENDORFF ERIC [US]
- [A] US 3641704 A 19720215 - SIMS ANSON, et al
- [AD] US 6695675 B1 20040224 - NGAN ROGER [US]
- [A] US 6241573 B1 20010605 - OSTENDORFF ERIC C [US], et al

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

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2108420 A1 20091014**; CN 101554535 A 20091014; JP 2009247654 A 20091029; US 2009253349 A1 20091008

DOCDB simple family (application)  
**EP 09156672 A 20090330**; CN 200910134065 A 20090408; JP 2008100114 A 20080408; US 38515609 A 20090331