

Title (en)  
SYSTEM FOR HANDLING CONES ON A ROAD

Title (de)  
SYSTEM ZUR HANDHABUNG VON KEGELN AUF EINER STRASSE

Title (fr)  
SYSTÈME DE MANIPULATION DE CÔNES SUR UNE ROUTE

Publication  
**EP 2405059 A1 20120111 (EN)**

Application  
**EP 10748367 A 20100222**

Priority  
• ES 2010070097 W 20100222  
• ES 200900720 A 20090306

Abstract (en)  
The system, which is installed on a vehicle (14), incorporates a robotic arm (10) with a gripping device for seizing and releasing cones (12), a detection system (13) for detecting cones (12), driving means for driving the arm (10) between a pick-up position for picking up the cone (12) and an unloading position for unloading the cone (12) in a storage area and means for positioning cones (12) at a regular distance on said road. The gripping device comprises an elongated member (11) projecting in a cantilevered manner from a side of the vehicle (14) provided to face said cones (12) when the vehicle (14) moves backwards. The elongated member (11) incorporates a fixed half-clamp (15) and a mobile half-clamp (16), which can be moved closer to/away from said fixed half-clamp (15) to seize and hold an upper end of the cone (12) therebetween.

IPC 8 full level  
**E01F 9/014** (2006.01); **E01F 9/70** (2016.01)

CPC (source: EP ES)  
**E01F 9/70** (2016.02 - EP ES)

Citation (search report)  
See references of WO 2010100305A1

Cited by  
CN103469740A; CN102776848A; CN105951628A; CN103952988A; CN109183660A; CN105672160A; CN110775647A; GB2496416A; CN107869121A; FR3014916A1; WO2022104716A1; US10174469B2; WO2015092266A1

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