Title (en)
Anti-collision system for level crossing

Title (de)
Kollisionsschutzsystem für Bahnübergang

Title (fr)
Système anti-collision pour passage à niveau

Publication
EP 0976640 A2 20000202 (FR)

Application
EP 99401857 A 19990722

Priority
FR 9809790 A 19980730

Abstract (en)
The level crossing, equipped with train approach warning devices (22, 24) and half-barriers (14, 16), also has video cameras (26, 28, 30, 32) mounted on poles to provide image information to a computer (34). Image analysis software, including stereoscopic processing, is used to determine the nature of any obstacle on the crossing and a controller (36) then sends speed control or braking commands as necessary to an approaching train via the usual track communication link (40). Preferably, pixels received from the video cameras are compared with at least one threshold value to determine obstacle contour.

Abstract (fr)
Ce système anti-collision comprend des équipements routiers (14,16,18,20,22,24) disposés au voisinage d'une chaussée (12) pour indiquer l'approche d'un convoi ferroviaire et provoquer l'arrêt de véhicules circulant sur la chaussée, et des moyens de détection d'obstacles (26,28,30,33,34) disposés au voisinage d'une voie ferrée (10) et raccordés à des moyens de commande (36) de l'arrêt de convois ferroviaires circulant en amont du passage à niveau, en présence d'un obstacle sur ce dernier. <IMAGE>

IPC 1-7
B61L 29/00

IPC 8 full level
B61L 29/00 (2006.01)

CPC (source: EP)
B61L 23/041 (2013.01); **B61L 29/30** (2013.01)

Cited by
SG110061A1; FR2936481A1; US2018222506A1; CN112406961A; EP3318464A1; FR3058556A1; EP2803552A3; CN105923023A; DE202008003947U1; EP2311709A2; WO2008131569A1; WO2010091970A1

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