

Title (en)  
METHOD AND ARRANGEMENT FOR SECURING A RAILROAD CROSSING

Title (de)  
VERFAHREN SOWIE ANORDNUNG ZUM SICHERN EINES BAHNÜBERGANGS

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE COMMANDE D'UN PASSAGE À NIVEAU

Publication  
**EP 3448736 A1 20190306 (DE)**

Application  
**EP 17728155 A 20170601**

Priority  
• DE 102016211482 A 20160627  
• EP 2017063264 W 20170601

Abstract (en)  
[origin: WO2018001674A1] The invention relates to a method for securing a railroad crossing (10), which allows a timely securing of the respective railroad crossing (10), and which is particularly efficient and reliable at the same time. To this end, the method according to the invention proceeds in such a way that sensor data relating to a rail-borne vehicle (20) approaching the railroad crossing (10) are detected by a track-side sensor device (80), said sensor data comprising at least the current speed of the rail-borne vehicle (20); the detected sensor data are transmitted by the track-side sensor device (80) to a stationary control device; a switch-on time is determined by the stationary control device taking into account the transmitted sensor data and route data; upon reaching the switch-on time, the securing of the railroad crossing (10) is initiated by the stationary control device; and after the railroad crossing (10) has been successfully secured, a travel permission that extends beyond the railroad crossing (10) is determined by a control device (30) of a train control system, and is transmitted to the rail-borne vehicle (20) to replace a previous travel permission that expired prior to reaching the railroad crossing (10). The invention further relates to an arrangement (100, 110, 120) for securing a railroad crossing (10).

IPC 8 full level  
**B61L 25/02** (2006.01); **B61L 27/00** (2006.01); **B61L 29/22** (2006.01); **B61L 29/32** (2006.01)

CPC (source: EP US)  
**B61L 25/021** (2013.01 - EP US); **B61L 27/20** (2022.01 - EP US); **B61L 27/40** (2022.01 - EP US); **B61L 29/22** (2013.01 - EP US); **B61L 29/32** (2013.01 - EP US); **B61L 2027/202** (2022.01 - US)

Citation (search report)  
See references of WO 2018001674A1

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)  
**DE 102016211482 A1 20171228**; EP 3448736 A1 20190306; EP 3448736 B1 20211117; ES 2905665 T3 20220411; HU E057400 T2 20220528; PL 3448736 T3 20220307; US 10933897 B2 20210302; US 2019248395 A1 20190815; WO 2018001674 A1 20180104

DOCDB simple family (application)  
**DE 102016211482 A 20160627**; EP 17728155 A 20170601; EP 2017063264 W 20170601; ES 17728155 T 20170601; HU E17728155 A 20170601; PL 17728155 T 20170601; US 201716313552 A 20170601