

Title (en)

FASTENING MEANS FOR GUARD RAIL

Title (de)

BEFESTIGUNGSMITTEL FÜR EINE LEITPLANKE

Title (fr)

MOYEN DE FIXATION POUR GLISSIERE DE SECURITE

Publication

EP 1082498 A1 20010314 (EN)

Application

EP 99922663 A 19990512

Priority

- NO 9900154 W 19990512
- NO 982171 A 19980513

Abstract (en)

[origin: WO9961708A1] A highway guard rail assembly comprising hollow mounting posts (1) of a suitable plastic material with a metal guard rail bar (2) extending from post to post and attached to the posts, wherein the bar (2) is fastened to the post (1) with bolts (3) with associated nuts (4), wherein the bolt (5) extends only through the part of the post (1) resting against the bar (2), wherein the bolt hole (5) in the bar (2) is reinforced with a washer (6) between the nut (4) (the head (8)) and the bar, whilst the bolt hole (7) in the post (1) has a diameter greater than that of the bolt (3) but slightly smaller than the diameter of the bolt head (8) (the nut (4)), the bolt head (8) (the nut (4)) resting directly against the interior wall (9) of the post (1).

IPC 1-7

E01F 15/04

IPC 8 full level

E01F 9/627 (2016.01); **E01F 15/04** (2006.01)

CPC (source: EP)

E01F 9/629 (2016.02); **E01F 15/0461** (2013.01)

Citation (search report)

See references of WO 9961708A1

Designated contracting state (EPC)

AT CH DE DK ES FI FR GB GR IT LI NL SE

DOCDB simple family (publication)

WO 9961708 A1 19991202; AU 3961299 A 19991213; EP 1082498 A1 20010314; NO 309158 B1 20001218; NO 982171 D0 19980513; NO 982171 L 19991115

DOCDB simple family (application)

NO 9900154 W 19990512; AU 3961299 A 19990512; EP 99922663 A 19990512; NO 982171 A 19980513