



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
25.09.2013 Bulletin 2013/39

(51) Int Cl.:
E01F 15/04 ^(2006.01)

(43) Date of publication A2:
24.08.2011 Bulletin 2011/34

(21) Application number: **11155707.0**

(22) Date of filing: **23.02.2011**

(84) Designated Contracting States:
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 States:
BA ME

• **Innovazione e Ricerca per Infrastrutture Sostenibili S.r.l. in Sigla Iris S.r.l.**
38068 Rovereto (TN) (IT)

(72) Inventor: **Demozzi, Andrea**
38123, Trento (IT)

(30) Priority: **24.02.2010 IT MI20100294**

(74) Representative: **Petruzzello, Aldo**
Racheli S.r.l.
Viale San Michele del Carso, 4
20144 Milano (IT)

(71) Applicants:
• **Mattioli S.p.A.**
35141 Padova (IT)

(54) **Absorption protective means to be installed on a guardrail to protect a motorcyclist in the event of an impact**

(57) There are disclosed protective means to be installed on a road or motorway barrier to protect a motorcyclist in the event of an impact against the barrier, consisting of continuous protective elements (1; 1') placed beneath the lower strip of the barrier and consisting of a box-type elongated body with an open rectangular section, where the side (2) of the box-shaped body facing the supporting stakes (5) has a longitudinal opening (14) on the whole length thereof.

A protective element (1; 1') is fixed to a supporting stake (5) by a plate (6) inserted into the protective element (1; 1') and a counter-plate (7) placed outside the protective element (1; 1') and tightened against the plate (6) by at least one bolt (7) passing through the opening (14) formed in the open side (2) of the protective element (1; 1'), to block the edges of the open side (2) of the protective element (1; 1') against a tab (9) of the supporting stake (5).

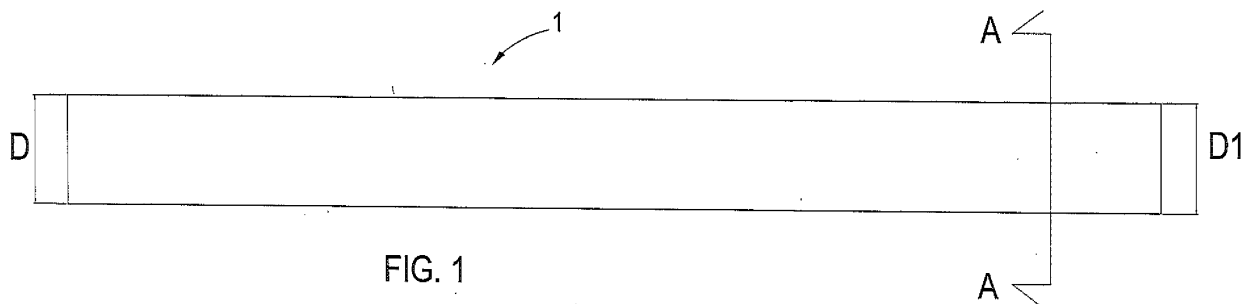
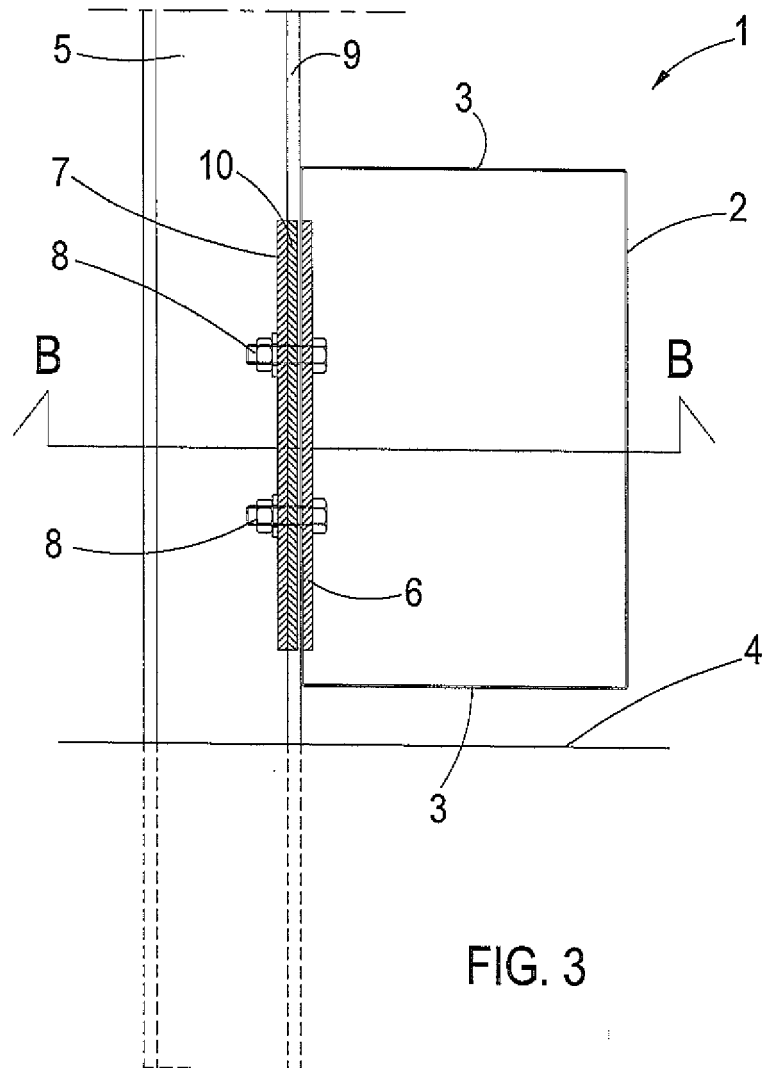


FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 11 15 5707

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X,D	FR 2 313 503 A1 (BRUN PAUL [FR]) 31 December 1976 (1976-12-31)	1-3,5	INV. E01F15/04
Y	* figures 1-3 *	4,6-8	

X	FR 2 760 028 A1 (SPIG SCHUTZPLANKEN PROD GMBH [DE]) 28 August 1998 (1998-08-28)	1-3,5	
Y	* figures 1,3,15,16 *	4,6-8	

Y,D	US 1 643 555 A (GLEDHILL EDWARD C) 27 September 1927 (1927-09-27)	8	
	* figures 10,12,16 *		

Y	WO 2009/132787 A1 (MATTIOLI S P A [IT]; INNOVAZIONE E RICERCA PER INFR [IT]; DEMOZZI ANDR) 5 November 2009 (2009-11-05)	6-8	
	* figure 2 *		

Y,D	WO 03/104568 A1 (WELECO AG [CH]; PULFER KARL [CH]; SCHUELER WOLFGANG [CH]) 18 December 2003 (2003-12-18)	4	
	* figures 1,2-4 *		

The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			E01F
<div>1</div> <div>Place of search</div> <div>The Hague</div> <div>Date of completion of the search</div> <div>15 August 2013</div> <div>Examiner</div> <div>Tran, Kim Lien</div>			
<div>CATEGORY OF CITED DOCUMENTS</div> <div> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document </div> <div> T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document </div>			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 15 5707

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-08-2013

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2313503	A1	31-12-1976	NONE
FR 2760028	A1	28-08-1998	NONE
US 1643555	A	27-09-1927	NONE
WO 2009132787	A1	05-11-2009	NONE
WO 03104568	A1	18-12-2003	AU 2003241084 A1 22-12-2003
		CH 694335 A5 30-11-2004	
		EP 1513983 A1 16-03-2005	
		WO 03104568 A1 18-12-2003	