

Title (en)  
HANDRAIL

Title (de)  
TREPPENGELÄNDER

Title (fr)  
MAIN COURANTE

Publication  
**EP 2993117 A3 20160511 (EN)**

Application  
**EP 15002241 A 20150729**

Priority  
IT GE20140076 A 20140730

Abstract (en)  
[origin: EP2993117A2] A handrail assembly, particularly for parapets and guard rails, including a tubular member that forms a resting surface and is applied to a support means; the assembly being characterized in that the tubular member is provided with a dissipation means adapted to increase the surface for heat exchange between the tubular member and the surrounding air. The assembly is studied in particular for extruded handrails made of aluminum for naval applications.

IPC 8 full level  
**B63B 17/04** (2006.01); **E04F 11/18** (2006.01)

CPC (source: EP)  
**B63B 17/04** (2013.01); **E04F 11/1836** (2013.01); **E04F 2011/1878** (2013.01); **E04F 2011/1889** (2013.01)

Citation (search report)

- [X] JP 2010150795 A 20100708 - SEKISUI JUSHI KK
- [A] US 2009211512 A1 20090827 - MASON CHRISTOPHER A [US], et al
- [A] FR 2144027 A5 19730209 - SUDRES JAMES
- [A] EP 2695807 A2 20140212 - ETEC INC [KR]
- [A] KR 20140035669 A 20140324 - YEON IL ENGINEERING [KR]

Cited by  
CN112009618A

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)  
**EP 2993117 A2 20160309; EP 2993117 A3 20160511; EP 2993117 B1 20170906**

DOCDB simple family (application)  
**EP 15002241 A 20150729**