

Title (en)

Fixing element for a tubular handrail part

Title (de)

Befestigungselement für ein rohrförmiges Handlaufteil

Title (fr)

Élément de fixation pour une pièce de main courante tubulaire

Publication

**EP 1522652 A3 20060517 (DE)**

Application

**EP 04023749 A 20041006**

Priority

DE 20315478 U 20031008

Abstract (en)

[origin: EP1522652A2] The fastening element for a tube, and especially a handrail, has an insert element (1,2) of elastic material for fitting into the tube, and a clamping element comprising a tensioning screw (4) with a threaded hole (10) and an associated nut (6). The insert element is installed between two guide discs (7,8) which have an outside diameter which for the guiding on the inner wall of the tube is slightly smaller than the inside diameter of the tube.

IPC 8 full level

**E04F 11/18** (2006.01); **F16B 7/04** (2006.01)

CPC (source: EP)

**E04F 11/1836** (2013.01)

Citation (search report)

- [X] US 5605075 A 19970225 - CHI YI-CHEN [TW]
- [A] US 4020735 A 19770503 - HERBACK ISTVAN JAHNOS GOHLIART
- [A] FR 1232176 A 19601006 - SIAM

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1522652 A2 20050413**; **EP 1522652 A3 20060517**; **EP 1522652 B1 20110209**; AT E498045 T1 20110215; DE 20315478 U1 20050224; DE 502004012172 D1 20110324

DOCDB simple family (application)

**EP 04023749 A 20041006**; AT 04023749 T 20041006; DE 20315478 U 20031008; DE 502004012172 T 20041006