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(71) Applicant: **Fondazione di' Persona 47122 Forlì' (IT)**

(72) Inventor: **Amaducci, Fabrizio 47122 FORLÌ' (IT)**

(74) Representative: **Fuochi, Riccardo APTA S.r.l. Piazza dei Martiri, 1 40121 Bologna BO (IT)**

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(54) **Upright for banisters, railings and the like**

(57) An upright for banisters, railings and the like, comprising a tubular body (6), a base (10) associated with the lower end (7) of said tubular body (6) and suitable for being fixed to a floor (3), a step (5) of a staircase or another similar surface, and a top piece (11) associated with the upper end (8) of said tubular body (6) and suitable for being fixed to the handrail (12) of a banister (2), railing (4) or similar. The upright comprises adjustable connection means (13) of said base (10) to said top piece (11) foreseen inside said tubular body (6).

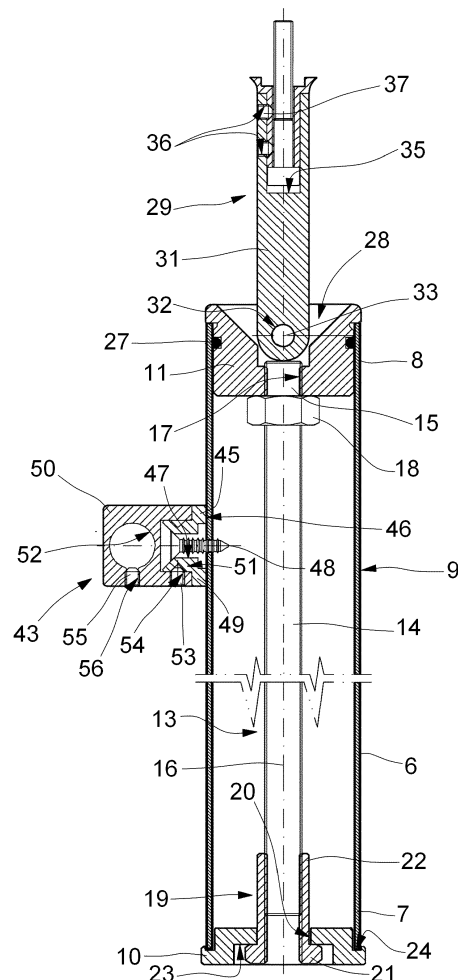


FIG. 4



EUROPEAN SEARCH REPORT

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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	BE 883 102 A1 (JACOB FERNANDE) 3 November 1980 (1980-11-03)	1-4,7,15	INV. E04F11/18
Y	* page 2, line 8 - page 3, line 15; claims 1-3; figures 1-5 *	14	
X	DE 10 2004 020637 B3 (HEINRICH TILMAN [DE]) 10 November 2005 (2005-11-10)	1-3,15	
A	* Bezugszeichenliste; paragraphs [0040] - [042,]; figures 2-4 *	14	
Y	WO 2010/001308 A1 (WALL ANTHONY REDVERS [ZA]) 7 January 2010 (2010-01-07) * abstract; figures 2-3 *	14	
			TECHNICAL FIELDS SEARCHED (IPC)
			E04F
<p>The present search report has been drawn up for all claims</p>			
Place of search		Date of completion of the search	Examiner
Munich		13 July 2017	Kofoed, Peter
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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EPO FORM 1503 03.82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-7, 14, 15

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-7, 14, 15

1. Upright for banisters, railings and the like, comprising a tubular body (6), a base (10) associated with the lower end (7) of said tubular body (6) and suitable for being fixed to a floor (3), a step (5) of a staircase or another similar surface, and a top piece (11) associated with the upper end (8) of said tubular body (6) and suitable for being fixed to the handrail (12) of a banister (2), railing (4) or similar, characterised in that it comprises adjustable connection means (13) of said base (10) to said top piece (11) foreseen inside said tubular body (6).

2. Upright according to claim 1, wherein said adjustable connection means (13) are of the screw type.

3. Upright according to claim 2, wherein said adjustable connection means (13) comprise a threaded bar (14) inserted inside said tubular body (6) and engaged, with the respective first upper end (15) and second lower end (16), in said top piece (11) and in said base (10).

4. Upright according to the previous claim, wherein said adjustable connection means (13) comprise an upper threaded hole (17) foreseen in said top piece (11) in which said first end (15) of said threaded bar (14) is engaged, and a support nut (19) associated with said base (10) in which said second end (16) of said threaded bar (14) is engaged.

5. Upright according to the previous claim, wherein said support nut (19) is engaged in a respective through opening (20) foreseen in said base (10).

6. Upright according to the previous claim, wherein said support nut (19) comprises a hexagonal portion (21) and an elongated cylindrical portion (22) engaged in said through opening (20).

7. Upright according to one of claims 4-6, wherein said support nut (19) is suitable for the connection to respective screw means foreseen in the floor (3), in the step (5) of a staircase or in another surface.

2. claims: 8-13

1. Upright for banisters, railings and the like, comprising a tubular body (6), a base (10) associated with the lower end (7) of said tubular body (6) and suitable for being fixed to a floor (3), a step (5) of a staircase or another similar surface, and a top piece (11) associated with the upper end (8) of said tubular body (6) and suitable for being fixed to the handrail (12) of a banister (2), railing (4) or similar, characterised in that it comprises adjustable connection means (13) of said base (10) to said top piece (11) foreseen inside said tubular body (6).

8. Upright according to one of the previous claims, wherein



LACK OF UNITY OF INVENTION
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

said top piece (11) comprises an upper seat (28) in which an inclinable endpiece (29) for connection to the handrail (12) of a banister (2), railing (4) or similar is housed.

9. Upright according to the previous claim, wherein said upper seat (28) is slot shaped.

10. Upright according to the previous claim, wherein said inclinable endpiece (29) comprises a pin (31) articulated to said top piece (11) in a rotation axis (32) foreseen inside said upper seat (28) and hidden from view.

11. Upright according to the previous claim, wherein said inclinable endpiece (29) comprises a shaped end (38) suitable for coupling with the handrail (12) of a banister (2), railing (4) or similar.

12. Upright according to the previous claim, wherein said shaped end (38) comprises a tang (40) inserted in a respective blind hole (35) foreseen in said pin (31).

13. Upright according to the previous claim, wherein said shaped end (38) comprises a through hole (41) suitable for the insertion of an upper screw (42) for connecting to the handrail (12) of a banister (2), railing (4) or similar.

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

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5 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
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13-07-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
BE 883102 A1	03-11-1980	-----	
DE 102004020637 B3	10-11-2005	NONE	

WO 2010001308 A1	07-01-2010	NONE	
