

Title (en)  
PREFABRICATED STRAIGHT STAIRWAY

Publication  
**EP 0033045 B1 19841128 (FR)**

Application  
**EP 80401852 A 19801223**

Priority  
FR 8001404 A 19800123

Abstract (en)  
[origin: EP0033045A1] 1. A straight staircase comprising, on the one hand, two inclined stringers (L) which each have a series of holes for the passage of the fixing bolts (1a, 1b), a plurality of steps (MA1, MA2, MA3...) whose ends, which are either folded up or each provided with a gusset, have a front hole (GM1) and a rear hole (GM2) through which the bolts (1a, 1b) are intended to pass, which bolts serve to fix the steps to the stringers and to adjust the horizontal position of the said steps, and, on the other hand, a hand rail or banister (MC) supported by a plurality of vertical supports (MT) (for example one per step) which have an upper hole (GF1, GF3) and a lower hole (GF2, GF4), characterised in that the bottom end of the vertical supports (MT) is provided with a gusset (GF), in that the gussets of the steps and of the vertical supports each have a round hole (GM1, GF1, GF4) and an oblong hole (GM2, GF2, GF3), in that each stringer has only a maximum of three round holes for assembling one step and one support, and in that at least one (1b) of the bolts passing through these holes fixes both the step and the support.

IPC 1-7  
**E04F 11/02; E04F 11/12**

IPC 8 full level  
**E04F 11/025** (2006.01)

CPC (source: EP)  
**E04F 11/0255** (2013.01)

Citation (examination)  
• DE 2509464 A1 19760909 - BAECKER JOSEF FA  
• US 3299590 A 19670124 - LAVOY CARTER

Cited by  
JP2014218884A; US11085191B2; FR2722525A1; US5890330A; US9309675B2; US7311335B2; US7794211B2; WO9602716A1; US11885134B2

Designated contracting state (EPC)  
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0033045 A1 19810805; EP 0033045 B1 19841128**; DE 3069728 D1 19850110; DK 29281 A 19810724; FR 2474085 A1 19810724; FR 2474085 B1 19851031

DOCDB simple family (application)  
**EP 80401852 A 19801223**; DE 3069728 T 19801223; DK 29281 A 19810122; FR 8001404 A 19800123