

Title (en)
Foldable stairs

Title (de)
Zusammenklappbare Treppe

Title (fr)
Escalier pliable

Publication
EP 2526240 A2 20121128 (EN)

Application
EP 11707229 A 20110112

Priority
• PL 39021910 A 20100118
• PL 2011000004 W 20110112

Abstract (en)
[origin: WO2011087385A2] The invention relates to a foldable stairs, and in particular to a metal foldable ladder- like stairs, comprising stairs segments (2, 3, 4) moveable with relation to each other, wherein the uppermost segment (2) is rotationally connected with a frame (1) mounted in a ceiling and preferably the uppermost stairs segment (2) is attached to the cover (11) that adheres to said frame (1) in the stairs closed state and is connected with the frame (1) by means of a hinge mechanism and the stairs segments (2, 3, 4) are positioned within the frame (1) in the stairs closed state, where the stairs are preferably provided with a mechanism, preferably a spring mechanism, that supports lifting folded stairs up to the stairs closed state and at least partially counterbalances the weight of the stairs during opening thereof, and further the stairs are provided with at least one handrail arranged in the top part of the stairs flight. In order to facilitate folding and unfolding the stairs and to provide the stairs featuring adjustable length, the stairs comprise a spring (6) that supports lifting up of the stairs segments (3, 4, 7) other than the uppermost segment (2) during folding these segments (3, 4, 7) with the uppermost segment (2) and at least partially counterbalances the weight of these segments (3, 4, 7) during unfolding the stairs, wherein the spring (6) is arranged inside the handrail (5). The bottom segment (4) of the stairs is advantageously provided with means (41, 42) for regulating the length of the bottom segment (4).

IPC 8 full level
E04F 11/06 (2006.01)

CPC (source: EP)
E04F 11/064 (2013.01)

Citation (search report)
See references of WO 2011087385A2

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

DOCDB simple family (publication)
WO 2011087385 A2 20110721; WO 2011087385 A3 201111201; WO 2011087385 A4 20120126; CN 102753771 A 20121024;
CN 102753771 B 20141119; EP 2526240 A2 20121128; EP 2526240 B1 20170920; HK 1173481 A1 20130516; PL 224400 B1 20161230;
PL 390219 A1 20110801

DOCDB simple family (application)
PL 2011000004 W 20110112; CN 201180006193 A 20110112; EP 11707229 A 20110112; HK 13100614 A 20130115; PL 39021910 A 20100118