

Title (en)

ONE-WAY CLUTCHING DEVICE BETWEEN A LIGATURE AND A FRAME

Title (de)

EINWEGKUPPELUNGSVORRICHTUNG ZWISCHEN EINEM GURT UND EINEM RAHMEN

Title (fr)

DISPOSITIF DE BLOCAGE UNIDIRECTIONNEL D'UN LIEN SUR UN CADRE

Publication

EP 1171008 A1 20020116 (EN)

Application

EP 99945457 A 19990903

Priority

US 9920201 W 19990903

Abstract (en)

[origin: WO0117385A1] This invention relates for creating a one-way clutching action between a frame body member (1) and a ligature (6). Three methods defined by two (2) and three (3) hole arrangements and loop (9) turning method. In either of the methods, properly spaced, strategically located holes (2 and 4) of proper size are provided within the body of the frame (1). These methods have variety of usage and can be applied to many different applications. Examples by a single body knot (17) for positive locking, and infinite adjustment, and comes apart with ease. Or by other products where a one-way clutching provides definite advantages. The invention extends the methods to the ligature ladders and other ligature ascending devices also. The structure in either case comprises of parallel ligatures (109, 110) and stepping element (111) the steps (111) connected to the ligatures (109, 110) by one-way clutching. The steps (111) connected to the ligatures (109, 110) by a loop (116) turning method.

IPC 1-7

A43C 7/00; **F16G 11/00**; **A44B 21/00**

IPC 8 full level

A43C 7/00 (2006.01); **A44B 99/00** (2010.01); **F16G 11/00** (2006.01); **F16G 11/14** (2006.01)

CPC (source: EP)

A43C 7/00 (2013.01); **F16G 11/046** (2013.01); **F16G 11/14** (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0117385 A1 20010315; AU 5805399 A 20010410; CA 2348932 A1 20010315; CA 2348932 C 20101019; EP 1171008 A1 20020116; EP 1171008 A4 20060906

DOCDB simple family (application)

US 9920201 W 19990903; AU 5805399 A 19990903; CA 2348932 A 19990903; EP 99945457 A 19990903