

Title (en)
A fall protection system

Title (de)
Sturzsicherungssystem

Title (fr)
Système de protection antichute

Publication
EP 3002044 B1 20221102 (EN)

Application
EP 14187217 A 20140930

Priority
EP 14187217 A 20140930

Abstract (en)
[origin: EP3002044A1] A fall protection system (1) for securely coupling a user (11) to a support structure (5). The fall protection system comprises a mast (2) arranged to be vertically mounted in a state of use, having a top end (6) and a base end (7); a user connection assembly (3); and a tether connector (10); wherein the mast comprises a structure connection portion, at which the mast is arranged to be removably connected to the support structure, and an energy absorbing deformation portion (15) positioned closer to the top end than the structure connection portion, wherein the fall protection system is rearrangeable between an inactive state and a ready-to-use state. In the ready-to-use state: - the user connection assembly protrudes from the mast substantially radially of the mast, and has a proximal end (8), connected with the mast at the top end, and a distal end (9); - the tether connector is arranged at the user connection assembly, and - the energy absorbing deformation portion is arranged to deform when exerted to a bending force caused by a falling user tethered to the tether connector. Thereby, the energy absorbing deformation portion absorbs energy and reduces the force exerted to the mast at its structure connection portion.

IPC 8 full level
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CPC (source: EP)
A62B 35/0068 (2013.01); **A62B 35/04** (2013.01)

Cited by
ITUA20164298A1; GB2622763A; US11745035B2; WO2017203349A1; WO2020016462A1; US11459780B2; EP3769818A1

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