

Title (en)

SUSPENDED PAYLOAD PLATFORM THRUSTED BY FLUID MASS FLOW GENERATORS

Title (de)

MITTELS FLÜSSIGKEITSMASSENFLUSSGENERATOREN VORGETRIEBENE AUFGEHÄNGTE NUTZLASTPLATTFORM

Title (fr)

PLATEFORME POUR CHARGE UTILE SUSPENDUE UTILISANT LA POUSSÉE PRODUITE PAR DES GÉNÉRATEURS DE FLUX DE MASSES FLUIDES

Publication

EP 2480478 A1 20120801 (EN)

Application

EP 10749902 A 20100727

Priority

- HU P0900467 A 20090728
- HU 2010000084 W 20100727

Abstract (en)

[origin: WO2011012915A1] A fluid mass flow based thrusting system for facilitating full penduling actuation of single cable or parallel cables suspended payload especially but not exclusively for aerial tethered/cable suspended robots, rescue systems and crane systems is provided. The required position and orientation of the payload is provided with the use of additional actuators along desired trajectories. Using at least three fluid mass flow generators in the proposed geometrical arrangements enable the full actuation of the nutation, precession and rotation/yaw angles of the pendulum like a suspended payload platform (pp). The roll and pitch of the payload, e.g., and not by way of limitation, is to be set by additional fluid mass flow generators or by using windable orienting cables or gyros.

IPC 8 full level

B66C 13/04 (2006.01)

CPC (source: EP)

B66C 13/04 (2013.01)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2011012915 A1 20110203; EP 2480478 A1 20120801; EP 2480478 B1 20141217; HU 0900467 D0 20090928; HU P0900467 A2 20110628

DOCDB simple family (application)

HU 2010000084 W 20100727; EP 10749902 A 20100727; HU P0900467 A 20090728