

Title (en)

External protection of plants against aircraft impact

Title (de)

Externer Schutz von Werksanlagen gegen den Einschlag von Flugzeugen

Title (fr)

Protection externe d'usine contre un impact d'avion

Publication

EP 2116674 A2 20091111 (EN)

Application

EP 08020268 A 20081121

Priority

IT RM20080235 A 20080505

Abstract (en)

The technical field of the invention is the protection of plants or installations (e.g. a nuclear power plant) against voluntary or accidental impact of an aircraft (e.g., New York September 11th 2001 event). This protection system is based on the use of a barrage net of cables; the net is mobile on ground rails and its height can be quickly adjusted; the net is supported by a number of aerostatic balloons. The barrage net is complemented by a wall closer to the installation to be protected. At least two concentric independent barrage nets are envisaged in order to cope with a double (or multiple) strike by two or more consecutive aircrafts. Along the barrage cable of each balloon a wind turbine and radar aerials are located with the purpose, respectively, of usefulness of the system in absence of threats and of automatic detection of threats and of net position control.

IPC 8 full level

E04H 9/10 (2006.01)

CPC (source: EP US)

E04H 9/04 (2013.01 - EP US)

Citation (applicant)

- GIANNI PETRANGELI: "Nuclear Safety", 2006, ELSEVIER, pages: 189
- GIANNI PETRANGELI: "Large Aircraft Impact on a Nuclear Plant", ICAPP, 2007, pages 7081

Cited by

US12007206B2; WO2014125480A1; WO2019027665A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2116674 A2 20091111; IT RM20080235 A1 20091106

DOCDB simple family (application)

EP 08020268 A 20081121; IT RM20080235 A 20080505