

Title (en)

DEVICE FOR EMERGENCY POWER SUPPLY TO AUXILIARY COMPONENTS OF A NUCLEAR POWER PLANT AND USE METHOD

Title (de)

VORRICHTUNG ZUR NOTENERGIEVERSORGUNG FÜR HILFSKOMPONENTEN EINES KERNKRAFTWERKS UND VERFAHREN ZUR VERWENDUNG

Title (fr)

DISPOSITIF D'ALIMENTATION ELECTRIQUE DE SECOURS DE COMPOSANTS AUXILIAIRES D'UNE CENTRALE NUCLEAIRE ET PROCEDE DE MISE EN OEUVRE

Publication

**EP 1386325 A1 20040204 (FR)**

Application

**EP 02761930 A 20020409**

Priority

- FR 0201244 W 20020409
- FR 0105143 A 20010413

Abstract (en)

[origin: FR2823592A1] The emergency power feed comprises a fuel cell (2) fed with hydrogen and air or pure from specific compressed hydrogen and air circuits (12, 24) of the nuclear plant, or specific oxygen circuits. The fuel cell, cooled by a circuit (31) delivering demineralized water from a tank (30) is designed to supply electricity to the motor driving a pump injecting water into the seals of a primary pump in a PWR, and also monitoring and control circuits in the event of a loss of their normal power supply. It can also comprise a hybrid system with a fuel cell and a super-condenser installation in parallel or in series.

IPC 1-7

**G21D 1/02**

IPC 8 full level

**G21D 1/02** (2006.01); **G21D 3/04** (2006.01); **H01M 8/00** (2006.01); **H01M 8/04** (2006.01); **H01M 8/06** (2006.01); **H02J 9/06** (2006.01); **H02J 11/00** (2006.01)

CPC (source: EP KR)

**G21D 1/02** (2013.01 - EP); **G21D 3/04** (2013.01 - KR); **Y02E 30/00** (2013.01 - EP)

Citation (search report)

See references of WO 02084670A1

Cited by

FR3013498A1; WO2015074829A1

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DOCDB simple family (publication)

**FR 2823592 A1 20021018**; **FR 2823592 B1 20051007**; CA 2445185 A1 20021024; CN 1507632 A 20040623; EP 1386325 A1 20040204; JP 2004530874 A 20041007; KR 20040002912 A 20040107; WO 02084670 A1 20021024; ZA 200307951 B 20040524

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