

Title (en)

Redundant system for operating spillway gates

Title (de)

Redundantes System zum Betrieb von Hochwasserentlastungstoren

Title (fr)

Système redondant d'exploitation des grilles de déversoir

Publication

EP 2832930 B1 20170712 (EN)

Application

EP 13179070 A 20130802

Priority

EP 13179070 A 20130802

Abstract (en)

[origin: EP2832930A1] The invention relates to a redundant system for operating spillway gates in a dam (1). The spillway gates (2) are provided by hydraulic cylinders (3) connected through a hydraulic circuit to a pump (17) arranged to feed hydraulic fluid through hydraulic pipelines from a tank (19) to the hydraulic cylinders (3) of the spillway gates (2) to open said spillway gates (2) when necessary. The hydraulic pump (17) is mechanically connected to a water turbine (15) to which water from the dam (1) is arranged to be fed when the water level (W) behind the dam (1) rises above an accepted level. The water flowing to the turbine (15) starts to rotate said turbine (15) and therewith the hydraulic pump (17) feeding the hydraulic cylinders (3) with hydraulic pressure to lift and open the spillway gates (2).

IPC 8 full level

E02B 7/20 (2006.01); **E02B 7/42** (2006.01)

CPC (source: EP)

E02B 7/205 (2013.01); **E02B 7/42** (2013.01)

Cited by

CN107217652A; CN108867579A; CN114703812A; CN111139797A

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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2832930 A1 20150204; EP 2832930 B1 20170712

DOCDB simple family (application)

EP 13179070 A 20130802