

Title (en)

Barrage for the automatic maintenance of a water level with little energy consumption.

Title (de)

Wehr zur automatischen Aufrechterhaltung eines Wasserspiegels mit geringem Energieverbrauch.

Title (fr)

Vanne de maintien automatique d'un niveau avec une faible consommation d'énergie.

Publication

EP 0083800 A1 19830720 (FR)

Application

EP 82112052 A 19821228

Priority

FR 8200344 A 19820112

Abstract (en)

[origin: ES8400203A1] An energy-efficient automatic sluice gate for sustaining a fluid level, separating an upstream pool from a downstream pool in an irrigation system and enabling the level of water in one of the pools to be kept constant at a settable value. A sluice gate separates an upstream pool (1) from a downstream pool (2) and enables the level of one of the pools to be kept constant at a settable value, said gate comprising a baffle (3) movable about a horizontal rotational shaft (4) whereby the rotation of the baffle about its shaft determines the flow of water downstream, said baffle constituting a segment of a cylinder having the said rotational shaft as its axis, and further comprising a box member (7A) and a second box member (7B), both moving with the baffle and dipping respectively in the upstream pool and in the downstream pool, means (9, 13, 15) for at least partially filling the box members, means (20) for keeping constant the level in the first or the second box member according to whether the level in the upstream pool or in the downstream pool is to be kept constant and means (50) of setting said constant level value.

Abstract (fr)

Vanne séparant un bassin amont (1) et un bassin aval (2) et permettant le maintien automatique à une valeur constante et réglable du niveau de l'un des bassins, comprenant un tablier (3) mobile autour d'un axe de rotation horizontal (4) et dont la rotation autour de cet axe commande la valeur du débit de l'amont vers l'aval, ledit tablier constituant une portion de cylindre ayant pour axe ledit axe de rotation, caractérisée en ce qu'il comprend un premier (7A) et un second (7B) caisson, solidaires du tablier, respectivement immergés partiellement dans le bassin amont et dans le bassin aval, des moyens (9, 13, 15) pour remplir au moins partiellement les caissons, des moyens (20) pour maintenir constant le niveau dans le premier ou le second caisson selon que l'on désire maintenir constant le niveau du bassin amont ou celui du bassin aval et des moyens (50) de réglage de cette valeur constante. Application à l'irrigation.

IPC 1-7

E02B 7/20

IPC 8 full level

G05D 9/00 (2006.01); **E02B 7/20** (2006.01)

CPC (source: EP US)

E02B 7/205 (2013.01 - EP US)

Citation (search report)

- [A] FR 1080677 A 19541213
- [A] US 2984986 A 19610523 - HILL RAYMOND A
- [A] FR 1237261 A 19600729 - ENTPR D EQUIPEMENTS MECANQUES
- [A] FR 1272155 A 19610922
- [AD] FR 2071299 A5 19710917 - ALSTHOM
- [A] FR 1203563 A 19600120 - ELECTRICITE DE FRANCE

Cited by

CN106638497A; DE3502243A1; FR2600180A1; FR2626388A1; CN108755612A; EP0249558A1; FR2600179A1; US4797027A; FR2641355A1; US4963057A

Designated contracting state (EPC)

FR GB IT

DOCDB simple family (publication)

EP 0083800 A1 19830720; EP 0083800 B1 19860305; AR 228005 A1 19821230; BR 8300046 A 19830920; EG 15366 A 19861230; ES 518934 A0 19831016; ES 8400203 A1 19831016; FR 2519783 A1 19830718; FR 2519783 B1 19860131; IN 159213 B 19870411; JP H0313365 B2 19910222; JP S58127816 A 19830730; MA 19679 A1 19831001; PT 76081 A 19830201; PT 76081 B 19860127; SU 1181566 A3 19850923; US 4449851 A 19840522

DOCDB simple family (application)

EP 82112052 A 19821228; AR 29157282 A 19821213; BR 8300046 A 19830106; EG 2083 A 19830111; ES 518934 A 19830112; FR 8200344 A 19820112; IN 856DE1982 A 19821123; JP 276083 A 19830110; MA 19896 A 19830103; PT 7608183 A 19830111; SU 3530802 A 19830105; US 44929282 A 19821213