

Title (en)

HYDROELECTRIC POWER PLANT WITH LOW WATER HEADS AT RIVERS AND SEA WAVES

Title (de)

WASSERKRAFTENERGIEWANDLER FÜR FLÜSSE UND MEERESWELLEN BEI NIEDRIGEN FALLHÖHEN

Title (fr)

CENTRALE HYDROÉLECTRIQUE À FAIBLES HAUTEURS D'EAUX D'ONDES DE MER ET DANS DES RIVIÈRES

Publication

EP 2536943 A2 20121226 (EN)

Application

EP 09805897 A 20091216

Priority

- BG 11029108 A 20081220
- BG 2009000019 W 20091216

Abstract (en)

[origin: WO2010069013A2] It will be used for lifting the water and for production of electric power. HEPP includes two groups of siphons (1, 2), connected hydraulically with vacuum siphons. Between all the rear branches (4) of the first siphons (1) and front branches (5) of the second siphons (2) there are lifting presses (36), in which a vertical rod (37) moves centrally. The pressure pipe (44) lifts water to the upper tank (45), in which is dipped the top of the upper branch (52) of the energy siphon (53), to which is fitted a water turbine (54) with electric generator (55). The energy siphon draws water from the upper tank for energy producing. At a version for utilization of the sea, before the groups of siphons is provided a lifting installation which includes trapezoid float (69), the three-joint cover (62) and upper tank (80).

IPC 8 full level

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CPC (source: EP)

F03B 13/086 (2013.01); **F04F 10/02** (2013.01); **F05B 2240/40** (2013.01); **Y02E 10/20** (2013.01); **Y02E 10/30** (2013.01)

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See references of WO 2010069013A2

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