Title (en)

GENERATING ENERGY BY MEANS OF AUTARCHIC TYPE 2.1 TO TYPE 4.1 HYDROELECTRIC POWER PLANTS

Title (de)

ENERGIEGEWINNUNG MIT AUTARKEN WASSERKRAFTANLAGEN VOM TYP 2.1 BIS TYP 4.1

Title (fr)

PRODUCTION D'ÉNERGIE AU MOYEN DE CENTRALES HYDROÉLECTRIQUES AUTONOMES DE TYPE 2.1 À 4.1

Publication

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Application

EP 16720320 A 20160216

Priority

- DE 2015000479 W 20150929
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Abstract (en)

[origin: WO2016110278A1] The autonomous type-4 hydroelectric power plant runs according to a method that extremely efficiently combines with each other the elements and assemblies that have been in operation for decades and, to a certain extent, uses the gravity of the atmosphere, or rather the air pressure at approx. 1.0 bar, as the main driving force for producing energy. Unlike solar energy and wind energy, the weight of the atmosphere is permanently available 24 hours a day and therefore can generate additional electricity around the clock. The siphon principle involved in this method was used in Germany as early as in 1927 for surface water transport in construction work and has been used since approximately 1900 to conduct water into lower collecting containers. In the type-4 method according to the invention, which uses the atmospheric pressure as a driving force, 55 percent of the head for generating electricity in a water turbine is produced by the siphon principle and 45 percent by efficient pump units. Thus, after accounting for the power needed to run the pumps used, 16 units allow a significant amount of energy to be produced at no cost for about 750,000 people or for the industry. The type-4 plant can be installed above the ground or partially below the ground, depending on the soil quality, in all countries of the world and at costs that will be recovered within a short period of time.

IPC 8 full level

F03B 17/00 (2006.01); **F03B 17/04** (2006.01)

CPC (source: CN EP US)

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