

Title (en)
LINEAR GENERATOR WITH A PRIMARY PART AND A SECONDARY PART FOR POWER GENERATION IN A WAVE-DRIVEN POWER STATION AND WAVE-DRIVEN POWER STATION

Title (de)
LINEARGENERATOR MIT EINEM PRIMÄRTEIL UND EINEM SEKUNDÄRTEIL ZUR ENERGIEGEWINNUNG IN EINEM WELLENKRAFTWERK UND WELLENKRAFTWERK

Title (fr)
GÉNÉRATEUR LINÉAIRE COMPRENANT UNE PARTIE PRIMAIRE ET UNE PARTIE SECONDAIRE, CONÇU POUR LA RÉCUPÉRATION D'ÉNERGIE DANS UNE CENTRALE HOULOMOTRICE ET CENTRALE HOULOMOTRICE

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Application
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Abstract (en)
[origin: CA2682158A1] The invention relates to a linear generator (10) for power generation in a wave-driven power station (50), comprising a primary part (20), with several annular primary coils, preferably concentric to an axis separated by spacers and a secondary part (30), with secondary coils which may be energised with direct current, arranged axially adjacent to each other with alternating polarity with HTS superconducting windings. The invention further relates to a wave-driven power station with such a linear generator. According to the invention, the arrangement of the primary coils (21) in the primary part (20) is as air gap windings with spacers made of non-magnetisable material. The primary part or the secondary part are remotely operated by means of a buoy (70) moving parallel to axis A and the current induced in the primary coils by the relative movement between the primary part and the secondary part can be tapped for power generation.

IPC 8 full level
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