INSTALLATION AND PROCEEDING FOR OBTAINING THERMAL AND ELECTRIC ENERGY

The invention refers to a plant and a procedure for heat and electricity production by using energy from sewerage water, especially the one resulting from industrial or housekeeping activities. Wastewater is treated simultaneously with obtaining heat and electricity. Steam from some reactor chambers (A) is discharged through some pipelines with electric valves mounted on the inside, connected to a short collector connected with a turbine (65) which operates a power generator, to the turbine there is connected a pipeline held in connection with a heat exchanger to which a pipeline is connected, through which the recirculation water from the first reactor chamber is introduced from a pipeline connected to the first reactor and passed through a cooler from which it is sucked by a pump and pushed through a pipe into the supply pipeline for sewerage water, to the last reactor there is connected another pipeline for the recirculation of water through another cooler from which water is pushed by another pump through another supply pipeline for the sewerage water of this reactor chamber, a boiler (49) is further connected through a pipeline to a turbine (54) which operates a power generator, to the turbine there is connected a pipe which connects it to a heat exchanger, onto which a pipeline in communication with the boiler is mounted.
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(h))

Published:
— with international search report (Art. 21(3))

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A. CLASSIFICATION OF SUBJECT MATTER
INV. B63J4/00 C02F9/00 C02F11/10 C25B15/08 C25B9/18
F01K13/00 F22B1/16 F22B1/28 C25B15/08 C25B9/18
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C25B F01K F22B C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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<td>Y</td>
<td>US 2006/201157 AI (VI LLALOBOS VICTOR M [US]) 14 September 2006 (2006-09-14) paragraphs [0002] - [0166] ; figures 1, 2, 5</td>
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