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<p>(51) International classification :F23G0001000000, F23G0005460000, F23G0005500000, F22B0001180000, F01K0025080000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. KOLAR DEEPAK (PROFESSOR, MECHANICAL ENGINEERING) Address of Applicant :VARDHAMAN COLLEGE OF ENGINEERING, (AUTONOMOUS) KACHARAM, SHAMSHABAD, HYDERABAD, TELANGANA - 501218, INDIA. E-mail: deepak045@vardhaman.org Telangana India 2)DR. SREERAMULU M (PROFESSOR & HOD, MECHANICAL ENGINEERING) 3)DR. P. V. DURGA PRASAD (ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING) 4)DR. N. T. RAVI KUMAR (ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING) 5)GUMMA V L PRASAD (ASSISTANT. PROFESSOR, MECHANICAL ENGINEERING)</p> <p>(72)Name of Inventor : 1)DR. KOLAR DEEPAK (PROFESSOR, MECHANICAL ENGINEERING) 2)DR. SREERAMULU M (PROFESSOR & HOD, MECHANICAL ENGINEERING) 3)DR. P. V. DURGA PRASAD (ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING) 4)DR. N. T. RAVI KUMAR (ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING) 5)GUMMA V L PRASAD (ASSISTANT. PROFESSOR, MECHANICAL ENGINEERING)</p>
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(57) Abstract :

ELECTRIC POWER IS GENERATED BY USING THE THERMAL ENERGY OF AN EXHAUST GAS GENERATED IN A CREMATORY My Invention ELECTRIC POWER IS GENERATED BY USING THE THERMAL ENERGY OF AN EXHAUST GAS GENERATED IN A CREMATORY is the electric power is generated by using the thermal energy of an exhaust gas generated in a crematory, and the generated electric power is supplied to each apparatus constituting a cremation system in order to improve energy efficiency. The cremation system has an exhaust gas/warm water heat exchanger for exchanging the heat of an exhaust gas from a recombustion furnace with a medium, a buffer tank for inhibiting a temperature change of the medium, and a flow rate adjustment valve. Further, an evaporator to generate a working medium steam by heating and evaporating a low boiling point working medium with the heat of the medium is used to drive a medium turbine to generate electric power using a power generator. Further, a buffer tank is provided in order to inhibit the temperature change of the medium flowing from the evaporator into the exhaust gas/warm water heat exchanger. Also, a power control device supplies, to each apparatus constituting the cremation system, the generated power and a shortage for the power needed by each apparatus from an external power source. The heat exchanger in the form of a panel is disposed inside the cremation furnace and the cremation furnace itself is made into a boiler, the heat exchanger is exposed to high temperatures and there are problems with reliability. is there. Further, in the power generation system described in this publication, maintenance and repair of the heat exchanger, and replacement with a new one are required at regular intervals.

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