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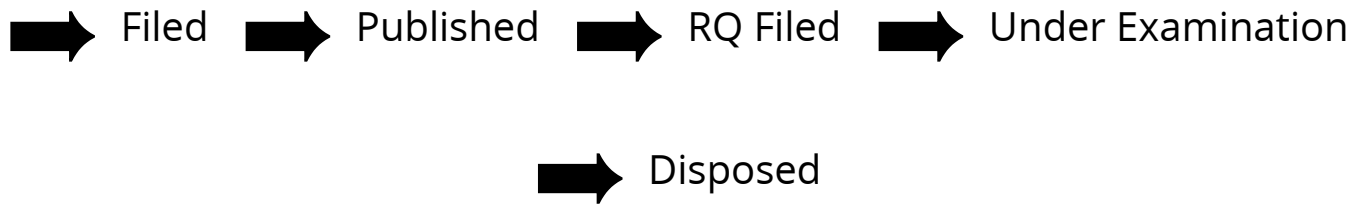
Application Details

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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/03/2021
APPLICANT NAME	VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (VNRVJIET)
TITLE OF INVENTION	SELF - EXCITED SYNCHRONOUS GENERATOR (SESG) WITHOUT D.C EXCITATION
FIELD OF INVENTION	ELECTRICAL
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(54) Title of the invention : SELF - EXCITED SYNCHRONOUS GENERATOR (SESG) WITHOUT D.C EXCITATION

(51) International classification	:H02P0101150000, H02K0019160000, H02P0101100000, H02P0009100000, F03D0007020000	(71)Name of Applicant : 1)VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (VNRVJIET) Address of Applicant :Bachupally road VignanaJyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad- 500090, Telangana State, India Telangana India
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(87) International Publication No	: NA	5)Dr. Shiva Prasad Edara
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(57) Abstract :

Self excited synchronous generator (SESG) without D.C Excitation is provided. The typical behavior of the Three Phase Synchronous Generator is observed in the laboratory, when a Capacitor of Sufficient rating is connected across 5Kva Synchronous Generator output terminals which are run at its synchronous speed using a DC Shunt Motor. MG set is run at 1500RPM and the D.C Excitation to the generator is removed and 2KVAR Capacitor is connected across phase-R and the neutral. Synchronous Generator is working as a 1-ph Self Excited Synchronous Generator (1-Ph SESG). When the same Generator is connected with a 5KVAR Capacitor then it is working as a 3-ph Self Excited Synchronous Generator (3-Ph SESG). The machine is simulated for various ratings with proper design of Capacitor bank using Simulink model. These Self excited synchronous generator are suited for remote rural regions and are robust in construction with lesser maintenance and low in costs.

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