

Title (en)
SYSTEM AND METHOD FOR SUPPLYING AUXILIARY POWER TO A LARGE DIESEL ENGINE

Title (de)
SYSTEM UND VERFAHREN ZUR VERSORGUNG EINES GROSSEN DIESELMOTORS MIT HILFSKRAFT

Title (fr)
SYSTEME ET PROCEDE D'ALIMENTATION AUXILIAIRE D'UN MOTEUR DIESEL DE GRANDE DIMENSION

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Application
EP 01989948 A 20011108

Priority

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- US 0146758 W 20011108
- US 77307201 A 20010131

Abstract (en)
[origin: WO0240845A3] A system and method for providing auxiliary power to a large diesel engine allowing shutdown of such large engine in all weather conditions. An auxiliary power unit made up of a secondary engine (45) coupled to an electrical generator (48) is provided. An automatic control system shuts down the primary engine (10) after a period of idling and the auxiliary power unit provides electrical power for heating and air conditioning. In cold weather, the auxiliary power unit maintains the primary engine coolant and lube-oil warm to facilitate engine restart. The coolant system (55) is kept warm using a heat changer (57) and electrical heaters. The lube-oil system is kept warm using a recirculating pump and electrical heaters. In warm weather, the auxiliary power unit provides electrical power for air conditioning and other hotel loads. The auxiliary power unit isolates the primary engine batteries during operation and provides electrical power for hotel and non-vital loads.

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Citation (search report)

- [A] US 5398508 A 19950321 - BROWN ARTHUR E [US]
- [A] US 4448157 A 19840515 - ECKSTEIN ROBERT J [US], et al

Cited by
DE102016117327A1; CN110091880A; US9731604B2; WO2018050645A1

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