

Title (en)  
ASSERGESCHMIERTE

Title (de)  
DAMPFTURBOGENERATOR MIT WASSERGESCHMIERTEN LAGERN UND VENTILEN

Title (fr)  
TURBOGENERATEUR A PALIERS ET SOUPAPES LUBRIFIES PAR EAU

Publication  
**EP 1034357 A1 20000913 (DE)**

Application  
**EP 98966767 A 19981126**

Priority  
• DE 9803490 W 19981126  
• DE 19752946 A 19971128

Abstract (en)  
[origin: US6240730B1] A steam turbogenerator set includes a common shaft for a steam turbine and a driven machine with a generator, downstream of which a frequency converter is connected. Electrical power can be fed at a predetermined frequency through the frequency converter into a load network. Bearings of the common shaft are cooled and lubricated with water. Since there is no gearing requiring cooling and lubricating, and control valves for the steam are also driven without oil, the risk of contamination or fire caused by oil is avoided. A method for operation of the steam turbogenerator set is also provided.

IPC 1-7  
**F01D 25/22**; **F01D 15/10**

IPC 8 full level  
**F01D 15/10** (2006.01); **F01D 17/10** (2006.01); **F01D 25/22** (2006.01); **F01K 13/02** (2006.01)

CPC (source: EP KR US)  
**F01D 15/10** (2013.01 - EP US); **F01D 25/22** (2013.01 - EP KR US)

Cited by  
EP1619355A1; WO2006008235A1

Designated contracting state (EPC)  
AT CH DE FR GB IT LI SE

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**WO 9928599 A1 19990610**; AT E248983 T1 20030915; BR 9815069 A 20001003; CN 1119508 C 20030827; CN 1280649 A 20010117; CZ 20001940 A3 20001115; CZ 296581 B6 20060412; DE 59809513 D1 20031009; EP 1034357 A1 20000913; EP 1034357 B1 20030903; JP 2001525512 A 20011211; JP 4213862 B2 20090121; KR 100561796 B1 20060321; KR 20010032535 A 20010425; PL 195761 B1 20071031; PL 341027 A1 20010326; US 6240730 B1 20010605

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