

Title (en)  
STEAM TURBOGENERATOR WITH WATER LUBRICATED LAGERS AND VALVES

Title (de)  
DAMPFTURBOGENERATOR MIT WASSERGESCHMIERTEN LAGERN UND VENTILEN

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

Publication  
**EP 1034357 B1 20030903 (DE)**

Application  
**EP 98966767 A 19981126**

Priority  
• DE 9803490 W 19981126  
• DE 19752946 A 19971128

Abstract (en)  
[origin: WO9928599A1] A steam turbo set has a common shaft (4) for a steam turbine (20) and a working machine with a generator (30) connected upstream of a frequency converter (5). Current of a predeterminable frequency can be supplied to a consumer network via the frequency converter (5). The bearings (6) of the common shaft (4) are water-cooled and water-lubricated. As no gear which would require cooling and lubrication is present, and as the steam regulating valves (221) are driven without oil, there is no danger of oil-caused soiling or burning.

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

DOCDB simple family (publication)  
**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

DOCDB simple family (application)  
**DE 9803490 W 19981126**; AT 98966767 T 19981126; BR 9815069 A 19981126; CN 98811633 A 19981126; CZ 20001940 A 19981126; DE 59809513 T 19981126; EP 98966767 A 19981126; JP 2000523451 A 19981126; KR 20007005778 A 20000526; PL 34102798 A 19981126; US 58398800 A 20000530