

Title (en)  
Steam-turbine power plant and steam turbine

Title (de)  
Dampfturbinenkraftanlage und Dampfturbine

Title (fr)  
Installation de turbines à vapeur et turbine à vapeur

Publication  
**EP 0759499 A1 19970226 (EN)**

Application  
**EP 95113119 A 19950821**

Priority  
EP 95113119 A 19950821

Abstract (en)  
A steam turbine in which principal components to be exposed to high temperatures are all made of ferritic steel, whereby the temperatures of main steam and reheat steam can be increased to 610 - 660 ( DEG C). The rotor shaft (23 in Fig. 1) of the steam turbine is made of ferritic forged steel whose 100,000-hour creep rupture strength is at least 15 (kg/mm<2>) at the service temperature of the rotor shaft. Likewise, the casing (18) is made of ferritic cast steel whose 100,000-hour creep rupture strength is at least 10 (kg/mm<2>). The steam turbine of high thermal efficiency can be applied to a steam-turbine power plant.

IPC 1-7  
**F01D 5/28; F01D 3/02; F01D 5/06; F01K 7/00**

IPC 8 full level  
**F01D 5/28** (2006.01)

CPC (source: EP)  
**F01D 5/28** (2013.01)

Citation (applicant)  

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

DOCDB simple family (publication)  
**EP 0759499 A1 19970226; EP 0759499 B1 20020227; EP 0759499 B2 20051214**; DE 69525621 D1 20020404; DE 69525621 T2 20021017; DE 69525621 T3 20060824

DOCDB simple family (application)  
**EP 95113119 A 19950821**; DE 69525621 T 19950821