

Title (en)
INTEGRATION CONSTRUCTION BETWEEN A STEAM BOILER AND A STEAM TURBINE AND METHOD IN PREHEATING OF THE SUPPLY WATER FOR A STEAM TURBINE

Title (de)
INTEGRATIONSBAU VON DAMPFKESSEL UND DAMPFTURBINE UND METHODE ZUR SPEISEWASSERVORWÄRMUNG FÜR DIE DAMPFTURBINE

Title (fr)
CONSTRUCTION INTEGREE D'UNE CHAUDIERE A VAPEUR ET D'UNE TURBINE A VAPEUR ET PROCEDE DE PRECHAUFFAGE DE L'EAU D'ALIMENTATION DE LA TURBINE A VAPEUR

Publication
EP 0724683 A1 19960807 (EN)

Application
EP 94928907 A 19941011

Priority
• FI 9400455 W 19941011
• FI 934603 A 19931019

Abstract (en)
[origin: WO9511370A1] The invention concerns an integration construction between a steam boiler and a steam turbine and a method for preheating of the supply water. In the integration construction the steam is passed from the steam boiler (10) along the duct (24a) into the steam turbine (11) so as to rotate the electric generator (12) which generates electricity. The economizer (23) consists of at least two parts, comprising at least one first economizer part (23') and at least one second economizer part (23''). The supply water is passed from the cold economizer part (23') to a supply-water preheater, which consists of a heat exchanger (24) in which thermal energy is transferred from bled steams of the steam turbine, either directly or through a medium, preferably water, into the supply water. After this, the supply water, which had been preheated by means of bled steams from the steam turbine, is passed in the steam boiler (10) into the hot economizer part (23'') and further to the vaporizer (240) and into the superheater (24) and through the superheater into the steam turbine.

IPC 1-7
F01K 7/40

IPC 8 full level
F22D 1/36 (2006.01); **F22D 1/40** (2006.01)

CPC (source: EP)
F22D 1/36 (2013.01); **F22D 1/40** (2013.01)

Citation (search report)
See references of WO 9511370A1

Cited by
US6951106B2; US6813888B2; WO2019020864A1; US11079108B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9511370 A1 19950427; AT E194208 T1 20000715; AU 7814694 A 19950508; DE 69425064 D1 20000803; DE 69425064 T2 20010308; DK 0724683 T3 20001002; EE 03219 B1 19990816; EP 0724683 A1 19960807; EP 0724683 B1 20000628; ES 2148346 T3 20001016; FI 101163 B 19980430; FI 934603 A0 19931019; FI 934603 A 19950420; GR 3034073 T3 20001130; PT 724683 E 20001229

DOCDB simple family (application)
FI 9400455 W 19941011; AT 94928907 T 19941011; AU 7814694 A 19941011; DE 69425064 T 19941011; DK 94928907 T 19941011; EE 9400281 A 19941116; EP 94928907 A 19941011; ES 94928907 T 19941011; FI 934603 A 19931019; GR 20000401765 T 20000731; PT 94928907 T 19941011