

Title (en)
STEAM TURBINE PLANT

Title (de)
DAMPFTURBINENANLAGE

Title (fr)
CENTRALE À TURBINE À VAPEUR

Publication
EP 3324009 A4 20190417 (EN)

Application
EP 16836947 A 20160727

Priority
• JP 2015162043 A 20150819
• JP 2016072030 W 20160727

Abstract (en)
[origin: EP3324009A1] Provided is a steam turbine plant that is provided with: a high and intermediate pressure turbine (21) having a high pressure turbine unit (25) at one end in an axial direction (C) and an intermediate pressure turbine unit (26) at the other end; low pressure turbines (22, 23) disposed coaxially with the high and intermediate pressure turbine (21); a high pressure moisture separating heater (27 (27a, 27b)) that removes moisture from steam from the high pressure turbine unit (25) and sends the steam to the intermediate pressure turbine unit (26); and a low pressure moisture separating heater (28 (28a, 28b)) that removes moisture from the steam from the intermediate pressure turbine unit (26) and sends the steam to the low pressure turbines (22, 23). The high pressure moisture separating heater (27) and the low pressure moisture separating heater (28) are each disposed symmetrically with respect to the center line along the axial direction (C) of the high and intermediate pressure turbine (21), whereby the structure of the steam turbine plant can be simplified and equipment cost can be reduced.

IPC 8 full level
F01K 13/00 (2006.01); **F01D 25/32** (2006.01); **F01K 7/22** (2006.01); **F01K 7/38** (2006.01)

CPC (source: EP)
F01D 25/32 (2013.01); **F01K 7/223** (2013.01); **F01K 7/38** (2013.01); **F01K 13/00** (2013.01)

Citation (search report)
• [X] FR 2693827 A1 19940121 - ALSTHOM GEC [FR]
• [A] JP S6047803 A 19850315 - HITACHI LTD
• [A] US 2013000567 A1 20130103 - MACHII KOTARO [JP], et al
• [A] JP H1123771 A 19990129 - HITACHI LTD
• [A] US 4589258 A 19860520 - VON BOECKH PETER [CH]
• See references of WO 2017029956A1

Cited by
US11339686B2

Designated contracting state (EPC)
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