

Title (en)
CONDENSER AND STEAM-TURBINE PLANT PROVIDED THEREWITH

Title (de)
KONDENSATOR UND DAMPFTURBINENANLAGE DAMIT

Title (fr)
CONDENSEUR ET INSTALLATION DE TURBINE À VAPEUR ÉQUIPÉE DE CELUI-CI

Publication
EP 2980474 A4 20161130 (EN)

Application
EP 14773797 A 20140313

Priority
• JP 2013065403 A 20130327
• JP 2014056718 W 20140313

Abstract (en)
[origin: EP2980474A1] This condenser (30) is provided with the following: a set of heat-transfer tubes (32); a main body (35) that covers the heat-transfer tubes; an intermediate body (41) that forms a primary steam passage (42) for guiding exhaust steam (ES) from a steam turbine (3) to the set of heat-transfer tubes in the main body; and a bypass steam receiving section (51) that receives bypass steam (BS), i.e. steam that has bypassed the steam turbine, and guides the bypass steam to the set of heat-transfer tubes in the main body. The bypass steam receiving section (51) is located outside the primary steam passage (42), and an opening in the main body (35) that is opposite to the bypass steam receiving section (51) is formed at a position where the bypass steam (BS) flows into the set of heat-transfer tubes (32) mainly from a region (34) different from an inflow region (33) through which the exhaust steam (ES) mainly flows into the set of heat-transfer tubes via the primary steam passage.

IPC 8 full level
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CPC (source: EP US)
F01K 7/16 (2013.01 - EP US); **F01K 9/003** (2013.01 - EP US); **F01K 11/00** (2013.01 - EP US); **F01K 23/02** (2013.01 - US); **F28B 1/02** (2013.01 - EP US); **F28D 21/001** (2013.01 - EP US); **F28F 27/02** (2013.01 - EP US)

Citation (search report)
• [X] JP S63201491 A 19880819 - HITACHI LTD
• [X] JP 2006329501 A 20061207 - TOSHIBA CORP
• [X] JP S5677502 A 19810625 - TOKYO SHIBAURA ELECTRIC CO
• [X] JP S5749004 A 19820320 - HITACHI LTD
• See references of WO 2014156686A1

Cited by
EP3473822A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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EP 2980474 A1 20160203; **EP 2980474 A4 20161130**; **EP 2980474 B1 20200219**; CN 104937339 A 20150923; CN 104937339 B 20170728; JP 2014190590 A 20141006; JP 6221168 B2 20171101; KR 101714946 B1 20170309; KR 20150100886 A 20150902; US 2016017756 A1 20160121; WO 2014156686 A1 20141002

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