

Title (en)

TURBINE CONDENSER WITH AT LEAST ONE STEAM BYPASS CONDUIT ENTERING THE STEAM DOME

Publication

**EP 0108298 B1 19850807 (DE)**

Application

**EP 83110382 A 19831018**

Priority

DE 3240453 A 19821102

Abstract (en)

[origin: US4530212A] A turbine condenser includes a steam dome of the condenser having a wall. At least one bypass steam inlet discharges into the steam dome. The bypass steam inlet includes a bypass valve for controlling the amount of bypass steam in the bypass steam inlet and at least two series-connected throttling devices disposed downstream of the bypass valve for decompressing the bypass steam. Each respective throttling device disposed relatively further downstream has a larger cross section than each throttling device disposed relatively further upstream. The throttling device disposed farthest downstream is in the form of an insert disposed in the steam dome conforming to the curvature of the steam dome wall. A device is provided for injecting water into the bypass steam inlet cooling the bypass steam.

IPC 1-7

**F28B 1/02**; **F01K 11/02**; **F01K 9/04**; **F28B 5/00**

IPC 8 full level

**F01K 9/04** (2006.01); **F01K 11/02** (2006.01); **F28B 1/02** (2006.01); **F28B 5/00** (2006.01); **F28B 9/02** (2006.01)

CPC (source: EP US)

**F01K 9/04** (2013.01 - EP US); **F01K 11/02** (2013.01 - EP US); **F28B 1/02** (2013.01 - EP US); **F28B 5/00** (2013.01 - EP US)

Cited by

EP0953731A1; EP1260782A1; EP3591179A1; RU2756941C1; EP2500549A1; CN103443420A; US6189871B1; WO2020007609A1; WO9419584A1; WO2012123194A1; WO02095313A1

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