

Title (en)

Steam pressure reducing and conditioning system

Title (de)

System zur Verminderung und Konditionierung des Dampfdrucks

Title (fr)

Système de réduction et de conditionnement de la pression de vapeur

Publication

EP 1327819 B1 20150729 (EN)

Application

EP 02007253 A 20020328

Priority

US 3934302 A 20020104

Abstract (en)

[origin: EP1327819A1] A steam conditioning system including a steam conditioning valve 1 for depressurizing and desuperheating steam S by supplying moisture W in the conditioning valve. A discharge pipe 3 connected to the steam conditioning valve 1 has a horizontal section 3a, and the horizontal arrangement section 3a is provided with a moisture drain 4 or at a portion near the bottom. Condensed moisture W1 is extracted from this moisture drain 4 and is recycled as moisture W to be supplied to the steam S in the conditioning valve 1. The steam conditioning valve 1 further has a reduced annular section 9 with a nozzle 5a disposed therein for injecting subcooled water mist W. A transport conduit 5 connects the drain 4 to nozzle 5a. Moisture W is drawn into steam flow S due to the Venturi effect caused by the pressure drop through the reduced annular section 9. <IMAGE>

IPC 8 full level

F22G 5/12 (2006.01); **F22B 35/10** (2006.01)

CPC (source: EP)

F22G 5/126 (2013.01)

Designated contracting state (EPC)

FR

DOCDB simple family (publication)

EP 1327819 A1 20030716; EP 1327819 B1 20150729; CA 2405397 A1 20030704; CA 2405397 C 20090804

DOCDB simple family (application)

EP 02007253 A 20020328; CA 2405397 A 20020927