

Title (en)

Steam conversion valve with spindle drive.

Title (de)

Dampfumformventil mit Spindelantrieb.

Title (fr)

Valve pour convertir de la vapeur avec entraînement de la broche.

Publication

**EP 0479020 B1 19941123 (DE)**

Application

**EP 91115657 A 19910916**

Priority

- DE 4030902 A 19900929
- DE 4040736 A 19901219

Abstract (en)

[origin: US5113903A] A steam converting valve having spindle actuation includes a main valve a main seat and a main throttle body cooperating with the main valve seat for controlling a main steam flow. A common spindle actuator supplies thrust forces. A main spindle is associated with the main valve for transmitting the thrust forces to the main throttle body for opening and closing the main valve. An auxiliary valve has an auxiliary valve seat and an auxiliary throttle body cooperating with the auxiliary valve seat for controlling an atomizer steam flow. An auxiliary spindle is associated with the auxiliary valve for transmitting the thrust forces to the auxiliary throttle body for opening and closing the auxiliary valve. First and second spring elastic couplings respectively transmit the thrust forces for the main spindle and the auxiliary spindle to the main and the auxiliary throttle bodies. The main and auxiliary spindles are adapted to one another for causing the main throttle body to close before the auxiliary throttle body reaches the auxiliary valve seat, so that the main stream flow is blocked off upstream of the atomizer steam flow in a closing operation, and for causing the auxiliary throttle body to open the auxiliary valve before the main throttle body leaves the main valve seat, so that the atomizer steam flow develops upstream of the main steam flow in an opening operation.

IPC 1-7

**F22G 5/12**

IPC 8 full level

**F16K 1/44** (2006.01); **F22G 5/12** (2006.01)

CPC (source: EP US)

**F22G 5/126** (2013.01 - EP US); **Y10T 137/8275** (2015.04 - EP US); **Y10T 137/86984** (2015.04 - EP US); **Y10T 137/87668** (2015.04 - EP US)

Cited by

DE19719120A1; DE19719120C2; WO9419646A1

Designated contracting state (EPC)

CH DE FR LI

DOCDB simple family (publication)

**US 5113903 A 19920519**; DE 59103579 D1 19950105; EP 0479020 A1 19920408; EP 0479020 B1 19941123; JP H04262175 A 19920917

DOCDB simple family (application)

**US 76836791 A 19910927**; DE 59103579 T 19910916; EP 91115657 A 19910916; JP 27689791 A 19910927