

Title (en)
CONTROL SYSTEMS FOR BOILERS

Publication
EP 0065408 B1 19860423 (EN)

Application
EP 82302398 A 19820511

Priority
US 26284481 A 19810512

Abstract (en)
[origin: EP0065408A2] A system for controlling the operation of once-through boilers utilises variable throttle pressure over a very wide load operating range. The system utilises a valving arrangement permitting a turbine valve (22) to be opened to a predetermined open position, typically 70 percent of its fully open position, as soon as possible during a system loading process. The turbine valve (22) is maintained in this predetermined open position while the flow of steam from the boiler is being varied by a control valve (40) and the output pressure of the boiler is varying accordingly. The turbine valve (22) is then allowed to open further from the predetermined open position when the system reaches full design pressure so as to vary the flow of steam from the boiler while the output pressure thereof is maintained substantially constant. In this manner, the boiler is operated at a variable output pressure over a very wide load operating range.

IPC 1-7
F22B 35/10; F01K 3/22

IPC 8 full level
F22B 35/00 (2006.01); **F01K 3/22** (2006.01); **F01K 13/02** (2006.01); **F22B 35/10** (2006.01)

CPC (source: EP KR)
F01K 3/22 (2013.01 - EP); **F22B 35/10** (2013.01 - KR); **F22B 35/105** (2013.01 - EP)

Cited by
KR102210866B1; US4608945A; CN113432105A; WO8502667A1; WO2021054586A1

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0065408 A2 19821124; EP 0065408 A3 19831116; EP 0065408 B1 19860423; AU 556280 B2 19861030; AU 8357282 A 19821118; CA 1211324 A 19860916; DE 3270729 D1 19860528; ES 512051 A0 19831101; ES 8400580 A1 19831101; JP S57198902 A 19821206; JP S6252122 B2 19871104; KR 830010338 A 19831230; KR 870001505 B1 19870819; MX 152206 A 19850607

DOCDB simple family (application)
EP 82302398 A 19820511; AU 8357282 A 19820511; CA 402639 A 19820510; DE 3270729 T 19820511; ES 512051 A 19820510; JP 7848782 A 19820512; KR 820001958 A 19820504; MX 19264782 A 19820512