

Title (en)

Process and apparatus for operating a steam power plant, especially in a partial load range

Title (de)

Verfahren und Vorrichtung zum Betrieb einer Dampfkraftanlage, insbesondere im Teillastbereich

Title (fr)

Procédé et dispositif pour l'exploitation d'une centrale à vapeur, en particulier en charge partielle

Publication

EP 1365110 B1 20090107 (DE)

Application

EP 02011279 A 20020522

Priority

EP 02011279 A 20020522

Abstract (en)

[origin: EP1365110A1] The method involves determining at least one internal pressure and internal and external temperature of at least one steam carrying component during operation, determining a spatial temperature distribution, deriving a comparison stress for the steam-carrying component, comparing with an upper mechanical load stress, determining a limiting steam pressure desired value if the comparison stress is higher and setting a steam valve accordingly. The method involves determining at least one internal pressure and at least one internal and external temperature of at least one steam carrying component (7) during operation, determining a spatial temperature distribution, deriving a comparison stress (Vs) for the steam-carrying component, comparing with an upper mechanical load stress (Mgs) and determining a limiting steam pressure desired value (Gd) if the comparison stress is higher and setting a steam valve (10) accordingly. AN Independent claim is also included for a device for operating a steam power plant, especially in partial load mode.

IPC 8 full level

F01K 13/02 (2006.01); **F01D 17/08** (2006.01); **F01D 19/00** (2006.01); **F01D 19/02** (2006.01)

CPC (source: EP US)

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Cited by

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EP 1365110 A1 20031126; **EP 1365110 B1 20090107**; AT E420274 T1 20090115; DE 50213199 D1 20090226; DK 1365110 T3 20090420; US 2003230088 A1 20031218; US 6915635 B2 20050712

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