

Title (en)

System for monitoring the operation of a steam turbine.

Title (de)

Verfahren und Vorrichtung zur Überwachung des Betriebszustandes einer Dampfturbine.

Title (fr)

Système pour la surveillance du fonctionnement de turbines à vapeur.

Publication

EP 0509347 B1 19950118 (DE)

Application

EP 92105807 A 19920403

Priority

DE 4112427 A 19910416

Abstract (en)

[origin: EP0509347A1] In order to monitor the operational status of a steam turbine (1) which can be fed an adjustable input steam quantity (E) and from which a variable partially expanded steam quantity can be extracted, the first step according to the invention is to determine a percentage value (RE) for the inlet steam quantity (E), after which a percentage value (P) for the turbine output is determined from this relative inlet steam quantity (RE). Subsequently, the respective working point determined by the relative inlet steam quantity (RE) and the relative turbine output (P) is represented inside a family of characteristics (43) for different extracted steam quantities. The device comprises means (22) for converting an actuating signal of an actuator (12) into a percentage value (RE) of the corresponding inlet steam quantity (E) and further means (31) for converting the percentage value (RE) of the inlet steam quantity (E) into a percentage value (P) of the turbine output, as well as a display device (25) with a screen (26) on which an extracted steam diagram (42) is represented. <IMAGE>

IPC 1-7

F01D 1/02; **F01D 15/00**; **F01D 17/00**; **F01D 17/04**; **F01D 21/00**

IPC 8 full level

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