

Title (en)

METHOD OF PROTECTING STEAM GENERATORS AGAINST MATERIAL DAMAGES

Publication

EP 0135685 B1 19870909 (DE)

Application

EP 84107640 A 19840702

Priority

DE 3330598 A 19830825

Abstract (en)

[origin: US4622306A] Decomposable organic compounds can, at times, be contained in the feedwater for steam generators; these decomposable compounds can stem from the untreated water supply or from the recondensate if the steam is utilized as heating steam for chemical plants and the condensate is recycled into the steam generator. The decomposition products can lead to damage to the material in the steam generator during long-term exposure. A partial stream of the feedwater is continuously examined for such compounds; as soon as these occur, they are disintegrated in the partial stream by UV light. The decomposition products are detected by measuring conductivity and/or by means of ion-sensitive electrodes. This measuring process works very rapidly and is highly sensitive, making it possible to consistently recognize contaminated water quantities and then to remove same in a controlled fashion from the feedwater stream for the steam generator or to process same into unobjectionable feedwater. The process permits the saving of large amounts of fresh feedwater, especially in steam generators with power-heat linkage in chemical plants.

IPC 1-7

F22B 37/56

IPC 8 full level

F22B 37/56 (2006.01); **F22D 11/00** (2006.01)

CPC (source: EP US)

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Cited by

DE102007026717A1; EP0570681A1; US5677190A; DE102007026717B4; EP4343324A1

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