

Title (en)

ASSEMBLY COMPRISING A STEAM SATURATOR AND METHOD FOR OPERATING AN ASSEMBLY OF THIS TYPE

Title (de)

ANORDNUNG UMFASSEND EINEN DAMPFSÄTTIGER SOWIE VERFAHREN ZUM BETREIBEN EINER SOLCHEN ANORDNUNG

Title (fr)

ENSEMBLE DOTÉ DE SATURATEUR DE VAPEUR ET PROCÉDÉ DE FONCTIONNEMENT D'UN TEL ENSEMBLE

Publication

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Application

EP 21700706 A 20210113

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Abstract (en)

[origin: WO2021148287A1] The invention relates to an assembly comprising a steam saturator (10) for generating saturated steam and a device for back-feeding the fluid evaporated in the steam saturator, wherein the steam saturator (10) comprises a steam inlet (12), via which steam is supplied to the steam saturator, the steam saturator (10) comprises a steam outlet (11) for the generated saturated steam, the steam saturator (10) also comprises a condensate inlet (13) via which condensate is supplied to the steam saturator, the steam saturator (10) comprises a condensate return (27) and a fluid level of condensate is maintained in the lower region of the steam saturator (10), which is fluidically connected to the condensate return (27), wherein the condensate return (27) is connected to the device for back-feeding the evaporated fluid, and wherein, according to the invention, the device for back-feeding is designed as a condenser (22) and comprises a cooling device (26) for condensing steam supplied to same. In terms of the steam saturator (10), the evaporated fluid is effectively only replaced as required, if the condensate level in the steam saturator (10) falls, namely by condensing saturated steam, which is supplied to the condenser (22) from the steam saturator and then condensed in the condenser by means of the cooling device. The back-feeding occurs in a depressurised manner and without an external power source.

IPC 8 full level

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