

Title (en)

DEVICE FOR SUPPLYING A STEAM CONSUMER AND METHOD FOR RECOVERING STEAM FROM A STEAM CONSUMER

Title (de)

VORRICHTUNG ZUR VERSORGUNG EINES DAMPFVERBRAUCHERS UND VERFAHREN ZUR DAMPFRÜCKGEWINNUNG EINES DAMPFVERBRAUCHERS

Title (fr)

DISPOSITIF D'ALIMENTATION D'UN CONSOMMATEUR DE VAPEUR ET PROCÉDÉ DE RÉCUPÉRATION DE VAPEUR D'UN CONSOMMATEUR DE VAPEUR

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Application

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Abstract (en)

[origin: WO2019091802A1] The invention relates to a device for supplying a steam consumer, comprising a steam consumer, a steam feed, which provides steam at a second pressure level and which can be connected to a fresh steam network, a condensate return line for conducting the condensate, means for evaporating the removed condensate, which means comprise at least one heat exchanger, and a feed-back line for feeding steam produced from the condensate back into the steam feed. The steam feed and the fresh steam network are decoupled. The device also comprises a thermocompressor, which is supplied with motive steam at a higher pressure level. The invention further relates to a method for recovering steam, comprising the following steps: a) drawing condensate from the steam consumer, b) compressing the condensate to a third pressure level, c) heating the condensate at the third pressure level in at least one heat exchanger, d) evaporating the condensate and producing steam at a second pressure level, e) feeding the produced steam into the steam feed, f) compressing flash steam from a further steam source by means of a thermocompressor to at least the target pressure for supplying the steam consumer, the motive steam of the thermocompressor having a pressure that lies above the second pressure level and in particular being drawn from the fresh steam network.

IPC 8 full level

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