

Title (en)
NATURAL-DRAUGHT AIR CONDENSER APPARATUS AND METHOD OF OPERATION THEREOF

Title (de)
NATURZUG LUFTKONDENSATOR UND DESSEN BETRIEBSWEISE

Title (fr)
APPAREIL DE CONDENSEURS A AIR NATUREL ET PROCEDE DE FONCTIONNEMENT DE CELUI-CI

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Abstract (en)
[origin: WO9802701A1] A natural-draught air condenser comprises air condensers (7, 7A, 11, 11A) arranged in sections (30, 30A) supplied with steam in parallel, each section (30, 30A) having two or more air condenser stages connected in series on the steam side, wherein subsequent stages are of a decreasing steam side cross section or cooling surface, and the air condensers (7, 7A, 11, 11A) are located at the bottom part of a cooling tower (5) in a way natural-draught air flow passes the air condensers in parallel. The air condensers (7, 7A, 11, 11A) of all stages are of such a circuitry that in them the steam and the generated condensate flow downwards in the same direction, and the air condensers (11, 11A) in either the last or in the last two stages are provided with auxiliary fans (12, 12A) to establish an artificial air flow in addition to the natural-draught air flow. The invention further relates to a method of operating a natural-draught air condenser wherein, upon start-up of the air condenser apparatus and in case of a stream flow disorder arising in the air condensers (7, 7A, 11, 11A), an artificial air flow is established in addition to the natural-draught air flow at the air condensers (11, 11A) in either the last or in the last two stages.

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