

Title (en)

METHOD FOR CONDITIONING A COMPRESSOR AIRFLOW AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUR KONDITIONIERUNG EINES VERDICHTERLUFTSTROMES SOWIE VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE CONDITIONNEMENT D'UN FLUX D'AIR DE COMPRESSEUR ET DISPOSITIF PERMETTANT LA MISE EN OEUVRE DUDIT PROCEDE

Publication

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Application

**EP 02765281 A 20021002**

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Abstract (en)

[origin: WO03033890A1] The invention concerns a method for conditioning a compressor airflow (A, B) whereby an airflow (A, B) is sucked at an inlet (11) of an axial compressor (1) comprising, axially arranged a central rotor (2) and a stator (3) enclosing the rotor (2), and compressed on the path conveying said airflow towards the outlet (10). The sucked airflow (A, B) consists of a main flow (A) and a marginal flow (B) adjacent to the inner wall of the stator (3), and an exhaust orifice (6) located before the outlet (10) in the forward direction of flow enables the tapping of the marginal flow (B) to be used as cooling air. The temperature of the cooling air is simply and efficiently lowered by introducing water in the marginal flow (B) between the inlet (11) and the exhaust orifice (6), said water being evaporated when the marginal flow (B) is being cooled.

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