

Title (en)
CENTRIFUGAL ELECTRIC PUMP FOR SUCTION OF AERIFORM FLUIDS WITH SILENCING DEVICE

Title (de)
ELEKTRISCHE ZENTRIFUGALPUMPE ZUR ANSAUGUNG VON GASFÖRMIGEN FLÜSSIGKEITEN MIT EINER DÄMPFERVORRICHTUNG

Title (fr)
POMPE ÉLECTRIQUE CENTRIFUGE POUR ASPIRATION DE FLUIDES AÉRIFORMES POURVUE D'UN DISPOSITIF D'ASSOURDISSEMENT

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Application
EP 11713350 A 20110209

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Abstract (en)
[origin: WO2011098898A2] A centrifugal electric pump (1) for suction of aeriform fluids comprising an electric motor (2) equipped with a shaft (3); a cylindrical suction box (4) provided with an inlet (5) for the aeriform fluid, one or more outlet openings (6) arranged on the lateral wall (4'') thereof and with a closing cover (7); at least one fan (8) driven in movement by said motor (2), arranged for sucking a flow of air (F) from said inlet (5), centrifuge it and discharge it outside said suction box (4) through said one or more outlet openings (6), characterized in that it comprises a silencing device arranged inside said suction box (4), wherein said silencing device comprises an annular deflector (9), placed in front of said outlet openings (6), so as to interrupt the direct path of the flow of centrifuged air (F) between said at least one fan (8) and said outlet openings (6), and arranged for creating a shaped annular damping chamber (10) for the flow of centrifuged air (F), open towards said suction inlet (5).

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