

Title (en)

METHOD FOR LOWERING THE PRESSURE IN A LOADING AND UNLOADING LOCK AND ASSOCIATED PUMPING UNIT

Title (de)

VERFAHREN ZUR DRUCKABSENKUNG IN EINEM BE- UND ENTLADESCHLOSS UND ZUGEHÖRIGE PUMPENEINHEIT

Title (fr)

PROCÉDÉ DE DESCENTE EN PRESSION DANS UN SAS DE CHARGEMENT ET DE DÉCHARGEMENT ET GROUPE DE POMPAGE ASSOCIÉ

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Application

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Abstract (en)

[origin: WO2018010970A1] The invention relates to a method for lowering the pressure in a lock for loading and unloading a substrate at atmospheric pressure by a pumping unit (1) including a primary vacuum pump (2) and a secondary vacuum pump (3) arranged upstream from said primary vacuum pump (2) in the direction of flow of the gases to be pumped. During the lowering of the pressure until the pressure in the loading and unloading lock reaches a predefined low-pressure threshold, the speed of rotation of the secondary vacuum pump (3) is controlled as a function of an operating parameter of the secondary vacuum pump (3) in order to increase the flow rate generated by the secondary vacuum pump (SoR) so that the flow rate generated by the secondary vacuum pump (SoR) is comprised in a range of which the upper value corresponds to six times the flow rate generated by the primary vacuum pump (Sol) and the low value corresponds to 1.3 times the flow rate generated by the primary vacuum pump (Sol). The invention also relates to a pumping unit for implementing said pressure-lowering method.

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