

Title (en)
MECHANICAL VACUUM PUMP WITH A SPRING LOADED RETURN VALVE

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Application
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Abstract (en)
[origin: US4921406A] The invention relates to a mechanical vacuum pump having a displacement member (2) and a casing (1) which is provided with an inlet channel (3) on the suction side and an outlet channel (4) on the discharge side. A spring-loaded non-return flap valve (5) is incorporated into the outlet channel (4). Upstream of this flap (5), a gas jet pump (7, 8) is installed in the outlet channel (4), the jet direction being parallel to the sealing surface of the non-return flap valve (5). This gas jet pump allows to significantly increase the final vacuum of the mechanical vacuum pump and to improve the cooling of the pump.

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