

Title (en)
OIL DIFFUSION PUMP AND OIL VAPOR GENERATOR USED THEREFOR

Title (de)
ÖLDIFFUSIONSPUMPE UND DARIN VERWENDETER ÖLDAMPFERZEUGER

Title (fr)
POMPE À DIFFUSION D'HUILE ET GÉNÉRATEUR DE VAPEUR D'HUILE UTILISÉ À CET EFFET

Publication
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Application
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Priority
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Abstract (en)
[origin: EP3088749A1] Provided is an oil diffusion pump equipped with an oil vapor generator capable of eliminating a problem that arises when a heater wire is used as a heating source for a hydraulic oil. The oil diffusion pump is a vacuum pump in which an oil vapor generator (70) is arranged in a casing (51) and operated to vaporize a hydraulic oil (8) and produce oil vapor, and this oil vapor is sprayed from a jet (53, 53a) to exhaust an intake air. The oil vapor generator (70) comprises a tubular case (71) (object to be heated) extending in an upright direction, an induction coil (75) wound around the tubular member (71) via an insulating material (73), and a power supply means for applying an alternating current to the induction coil (75). The case (71) and the coil (75) are installed in the casing so as to be immersed in the hydraulic oil (8) stored in the casing (51). The power supply means is operated to apply an alternating current to the induction coil (75) to heat the case (71) itself and thus vaporize the hydraulic oil (8).

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