

Title (en)  
SELF-CONTAINED LIQUID COOLED AND LUBRICATED ELECTRICAL ROTARY MACHINE

Title (de)  
UNABHÄNGIGE FLÜSSIGKEITSGEKÜHLTE UND -GESCHMIERTE ELEKTRISCHE ROTATIONSMASCHINE

Title (fr)  
MACHINE ELECTRIQUE TOURNANTE AUTONOME REFROIDIE ET LUBRIFIEE PAR LIQUIDE

Publication  
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Application  
**EP 98917994 A 19980402**

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Abstract (en)  
[origin: WO9844325A1] An electric rotary machine has a self-contained fluid cooled and lubricated structure in a drum drive. In one embodiment, the present invention is embodied in a drum type dynamometer, and more particularly, a chassis dynamometer for testing vehicles. Lubricating coolant is contained in a closed rotatable drum of the dynamometer. Agitators in the form of baffles are provided on the shaft, which facilitate coverage of the coolant on the internal components of the dynamometer. The present invention can be embodied as a drum type electric motor as well. The output drive of the motor is a rotating drum about a fixed shaft. Like the structure of the dynamometer, lubricating coolant is contained in the closed drum. Agitators in the form of baffles are provided on the shaft, which facilitate coverage of the coolant on the internal components of the motor. In both embodiments, the coolant carries heat from the internal components to the drum, which in turn, dissipates the heat to the ambient air.

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