

Title (en)  
LIQUID-COOLED HEAVY-DUTY RESISTOR.

Title (de)  
FLÜSSIGKEITSGEKÜHLTER HOCHLASTWIDERSTAND.

Title (fr)  
RESISTANCE A GRANDE PUISSANCE REFROIDIE PAR LIQUIDE.

Publication  
**EP 0604481 B1 19950816 (DE)**

Application  
**EP 92918785 A 19920908**

Priority  
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• DE 9200762 W 19920908

Abstract (en)  
[origin: US5508677A] PCT No. PCT/DE92/00762 Sec. 371 Date Mar. 21, 1994 Sec. 102(e) Date Mar. 21, 1994 PCT Filed Sep. 8, 1992 PCT Pub. No. WO93/06605 PCT Pub. Date Apr. 1, 1993. A liquid cooled, heavy duty resistor including a housing and a resistor element. The resistor element is arranged inside a chamber defined by the housing. The resistor element and the housing form a rectangular duct through which a cooling liquid flows from an inlet to an outlet. The chamber is defined by two insulating plates and an insulating ring. The resistor element is a bifilar wound spiral strip conductor and is clamped between two insulating plates such that the cooling liquid flows through the rectangular duct. The liquid cooled, heavy duty resistor can remove a high dissipated power in a small space, has low inductance, and has a low resistance value.

IPC 1-7  
**H01C 1/082**; **H01C 3/02**

IPC 8 full level  
**H01C 1/082** (2006.01); **H01C 3/02** (2006.01)

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