

Title (en)

MATERIAL FOR FRICTION-STRESSED MACHINE PARTS

Title (de)

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Title (fr)

MATERIAU POUR PARTIES DE MACHINES SOLLICITEES EN GLISSEMENT

Publication

**EP 0953063 B1 20000816 (DE)**

Application

**EP 97950019 A 19971022**

Priority

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Abstract (en)

[origin: WO9817834A1] A material for casting friction-stressed machine parts is disclosed, in particular fluid-lubricated friction bearings. A material with a high admissible surface pressure, reduced wear and low tendency to gripping is obtained by using (a) a composition (in wt %) of 1.5-12.0 Cr;  $\leq 5.0$  Ni;  $\leq 2.0$  Mo;  $\leq 3.0$  Si;  $\leq 1.0$  Mn and 3.0-5.0 C, iron and casting impurities making up the remaining percentage, and (b) a structure composed of a ferritic, ferritic-perlitic or bainitic matrix in which chromium carbides and free carbon are also present.

IPC 1-7

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