

Title (en)

PROCESS FOR IMPROVING THE DURABILITY OF HYDRAULIC CHISELS

Title (de)

VERFAHREN ZUR VERBESSERUNG DER HALTBARKEIT VON HYDRAULIKMEISSELN

Title (fr)

PROCEDE PERMETTANT D'AMELIORER LA DURABILITE DE TREPANS HYDRAULIQUES

Publication

**EP 0855950 B1 20030115 (DE)**

Application

**EP 96945503 A 19961017**

Priority

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Abstract (en)

[origin: DE19641510A1] The method involves hardening and tempering the chisel up to 50-53 HRC. The outer diameter (3), including the cut-out (6), is once again tempered at high temperatures over depth (5) to achieve surface hardness from 40 to 43 HRC. A deliberate marginal carbonization can be carried out on the surface before hardening and tempering. With subsequent hardening through the reduced carbon content a hardness of 40-43 HRC is reached on the surface and a hardness of 50-53 HRC is reached on the head, work tip and core.

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**DE 19641510 A1 19971106**; DE 59610057 D1 20030220; EP 0855950 A1 19980805; EP 0855950 B1 20030115; WO 9715421 A1 19970501

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