

Title (en)

METHOD OF MANUFACTURING A HARDENED FORGED STEEL COMPONENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GEHÄRTETEN GESCHMIEDETEN STAHLBAUTEILS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN COMPOSANT EN ACIER TREMPÉ FORGÉ

Publication

**EP 1789597 A4 20091028 (EN)**

Application

**EP 05769695 A 20050816**

Priority

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Abstract (en)

[origin: WO2006017880A1] A method of manufacturing steel components particularly suited to components such as steering racks having net shape forged gear teeth. The method comprising heating at least a portion of a steel blank to a first temperature of at least 600 °C, forging the portion to shape, cooling the portion in a controlled manner to a second temperature above 200 °C, then immediately heating at least part of the surface of the portion to an austenising temperature, and then quenching the portion to harden the surface.

IPC 8 full level

**C21D 8/00** (2006.01); **B21K 1/00** (2006.01); **C21D 1/02** (2006.01); **C21D 1/06** (2006.01); **C21D 1/10** (2006.01); **C21D 1/18** (2006.01); **C21D 1/20** (2006.01); **C21D 7/13** (2006.01); **C21D 9/00** (2006.01); **C21D 9/32** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

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Designated contracting state (EPC)

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