

Title (en)

METHOD AND APPARATUS FOR FORGING GEAR TEETH

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SCHMIEDEN VON ZAHNRADZÄHNEN

Title (fr)

PROCEDE ET APPAREIL POUR FORGER DES DENTS D'ENGRENAGE

Publication

**EP 1684928 A1 20060802 (EN)**

Application

**EP 04796980 A 20041104**

Priority

- AU 2004001531 W 20041104
- AU 2003906175 A 20031107

Abstract (en)

[origin: WO2005044482A1] A forged gear and a method of manufacture thereof. The forged gear comprises a bevel gear with a plurality of teeth, each tooth having a tip disposed between two faces and two ends, the two faces extending in a substantially longitudinal direction of the tooth, wherein the tip of each tooth has at least one substantially crowned portion between the two ends along the longitudinal direction. The method of manufacture comprises forging the gear from a blank such that during the forging operation a substantial portion of the length of each forged tooth tip does not contact the die cavity.

IPC 8 full level

**B21D 53/28** (2006.01); **B21K 1/30** (2006.01); **F16H 55/08** (2006.01); **F16H 55/17** (2006.01)

CPC (source: EP US)

**B21K 1/30** (2013.01 - EP US); **F16H 55/0886** (2013.01 - EP US); **F16H 1/145** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005044482 A1 20050519**; AU 2004287509 A1 20050519; AU 2004287509 B2 20071122; EP 1684928 A1 20060802; EP 1684928 A4 20080528; JP 2007509761 A 20070419; US 2007125148 A1 20070607

DOCDB simple family (application)

**AU 2004001531 W 20041104**; AU 2004287509 A 20041104; EP 04796980 A 20041104; JP 2006538598 A 20041104; US 57707704 A 20041104