

Title (en)

Clutch gear manufacturing apparatus and clutch gear manufacturing method

Title (de)

Vorrichtung zur Herstellung eines Kupplungsgetriebes und Verfahren zur Herstellung eines Kupplungsgetriebes

Title (fr)

Appareil et procédé de fabrication de pignons d'embrayage

Publication

EP 2025430 B1 20100217 (EN)

Application

EP 08014089 A 20080806

Priority

JP 2007210522 A 20070810

Abstract (en)

[origin: EP2025430A1] A clutch gear manufacturing apparatus includes a die (16) that allows a clutch gear primary product (Wb), which has spline teeth (1) with chamfers (1a) formed in an outer peripheral surface of the primary product (Wb), to be disposed in the die (16), and includes a blade (16a) capable of forming reverse tapers (1b) at the spline teeth (1); a punch (18) capable of pressing down the primary product (Wb) disposed in the die (16) so that the spline teeth (1) are pressed by the blade (16a); a knockout sleeve (17) that receives the primary product (Wb) which is pressed down by the punch (18); and a punch pin (31) that forms a cone hole (4) in a side surface of the primary product (Wb) while the spline teeth (1) are pressed by the blade (16a).

IPC 8 full level

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CPC (source: EP)

B21J 5/027 (2013.01); **B21K 1/30** (2013.01)

Cited by

EP3210688A1; CN101869943A; FR2953744A1; CN102695571A; US9364886B2; US9850787B2; WO2011073581A1

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