

Title (en)

METHOD FOR SETTING THE TOOTH FACE POSITION OF A GEAR WHEEL

Title (de)

VERFHAREN ZUR EINSTELLUNG DER ZAHNFLANKENPOSITION EINES ZAHNRADS

Title (fr)

PROCÉDÉ PERMETTANT DE RÉGLER LA POSITION D'UN FLANC DE DENT D'UNE ROUE DENTÉE

Publication

**EP 2255105 A1 20101201 (DE)**

Application

**EP 08873351 A 20081218**

Priority

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Abstract (en)

[origin: CA2717908A1] The invention relates to a method for setting the tooth face position of a gear wheel (2), which is positively connected to a double helical pinion shaft (1). A hydraulic press fit (4, 4a) is formed between the gear wheel (2) and pinion shaft (1) in order to be able to eliminate a non-positive connection of the gear wheel (2) shrink-fitted onto the pinion shaft (1), shrink-fitting the gear wheel (2) in order to set the gear wheel position. The setting is carried out by determining a tooth face apex point (A) of the double helix of the pinion shaft (1). A radial plane (E) at a predetermined axial offset (AV) from the tooth face apex point (A) and a radial offset (RV) with respect to the tooth face apex point (A) are defined. The intersecting point (S) of a tooth face (11) of the gear wheel (2) must be located in the predetermined radial offset (RV) in the radial plane (E). Such a pinion shaft (1) is used particularly in a power-splitting spur gearbox (12), wherein an input shaft is multiply engaged with several pinion shafts (1) via a double helix, the gear wheels (2) of the pinion shafts (1) in turn being multiply engaged with a common output shaft (15).

IPC 8 full level

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CPC (source: EP US)

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