

Title (en)
BEVEL GEAR

Title (de)
SCHRAUBRAD

Title (fr)
ROUE CONIQUE

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Application
EP 07764361 A 20070612

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Abstract (en)
[origin: WO2008000220A2] The invention relates to a bevel gear, the rim gear (2) of which is produced by injection moulding with a plastic around a base body (1). The aim of the invention is to produce an inventive bevel gear in which there is a connection between the base body (1) and the rim gear (2) the strength of which also permits the transmission of high torques. The base body (1) of the inventive bevel gear is embodied as a flange, around the disc-shaped region (1') of which the plastic rim gear (2) is injection moulded. The region (1'') of reduced diameter adjacent to the region (1') forms a hub for rotationally fixed mounting of the bevel gear on a shaft. According to the invention, the flange region (1') has, axially on both sides, several recesses (3, 3'), distributed around the circumference thereof running principally in the axial direction but not extending through said region (1'). The recesses (3, 3') have a swallow-tailed form such that the sections (4, 4') of the outer circumference of the region (1') remaining between them are back-cut by the edges of the recesses (3, 3') running in the axial direction.

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F16H 55/06 (2006.01)

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