

Title (en)
WORM GEAR FOR AN ELECTROMECHANICAL POWER STEERING SYSTEM

Title (de)
SCHNECKENRAD FÜR EINE ELEKTROMECHANISCHE HILFSKRAFTLENKUNG

Title (fr)
ROUE HÉLICOÏDALE POUR DIRECTION ASSISTÉE ÉLECTROMÉCANIQUE

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Application
EP 15747432 A 20150731

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Abstract (en)
[origin: WO2016066291A1] The invention relates to a worm gear (4) for an electromechanical power steering system for arranging on a steering shaft (1), comprising an insert (40) which is encapsulated with a plastic in order to form a toothed rim (48), wherein the toothed rim (48) comprises at least one injection section (45) in which at least one injection point (44) is arranged and which has a first material thickness (measured in the direction of the worm gear axis (400)), and the toothed rim (48) comprises at least one retardation section (43) which has a reduced material thickness relative to the injection section (measured in the direction of the worm gear axis (400)), wherein the retardation section (43) of reduced material thickness is arranged between an injection point (44) and the outer surface of the circumferential toothing system (49), wherein the retardation section (43) of reduced material thickness is formed by at least one retardation element (42, 56) for backing up the plastic during the injection moulding encapsulation.

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