

Title (en)

METHOD FOR MECHANICALLY SYNCHRONIZING TWO ROTATING, AXIALLY OFFSET SPUR GEARS

Title (de)

VERFAHREN ZUR MECHANISCHEN SYNCHRONISATION ZWEIER SICH DREHENDER, ACHSVERSETZTER STIRNZAHNRÄDER

Title (fr)

PROCÉDÉ DE SYNCHRONISATION MÉCANIQUE DE DEUX ROUES DENTÉES CONIQUES ROTATIVES, DÉCALÉES AXIALEMENT

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Application

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Abstract (en)

[origin: WO2010136429A1] The invention relates to a method for mechanically synchronizing two rotating, axially offset spur gears (46, 48) - in particular a starter pinion of a starter device (5) and a ring gear of an internal combustion engine - characterized in that the first spur gear (46) rotatably supports a driving plate (70) that can only rotate in one direction on an end face (85) of the first spur gear directed toward the second spur gear (48), the driving plate (70) being carried by the rotating second spur gear (48) when the first spur gear (46) is pushed forward axially toward the second spur gear (48), thereby closing tooth gaps (119) between teeth (82) of the first spur gear (46) to the axial penetration of teeth (116) of the second spur gear (48). The invention further relates to a machine (5), in particular an electrical starter device, comprising a spur gear (46), in particular a starter pinion, characterized in that said machine is equipped with a driving plate (70), which is arranged on an axial side of the spur gear (46) that faces away from a lifting means (20) of the spur gear (46), the driving plate (70) being restricted in rotation relative to the spur gear (46), whereby tooth gaps (82a) of the spur gear (46) are closed.

IPC 8 full level

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