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The invention relates to processes and devices for elastic film application onto the bevel gear teeth.
The process for elastic film application onto the bevel gear teeth is realized by continuous application of glue onto the bevel gear teeth by means of at least a glue applying roller and at least a presser roller. Novelty consists in that it is continuously applied glue through a glue distribution device onto an elastic film and the elastic film is glued onto the teeth of the bevel gear, which is communicated a precession motion around the point of intersection of its axis and of the generators of the pressure roller made conic. Concomitantly, the bevel gear is communicated a rotary motion around its axis, coordinated with the precession motion thereof.
The device for elastic film application onto the bevel gear teeth includes a capacity (12) for glue, a glue continuous feeding mechanism, including at least a pressure roller (10). The width of the roller (10) is greater than the width of the teeth of the bevel gear (5). Novelty consists in that the device additionally includes an elastic film continuous feeding mechanism (11) and servomotors (7, 8), controlled by a computer control system and joined with the roller holder (2) and a table (6), onto which it is installed the bevel gear (5). The table (6) carries out a precession motion around the point of intersection of the teeth generators and its axis and a rotary motion around its axis, coordinated with the precession motion thereof. The pressure roller (10) is made conic and fixed into the holder (2) with the possibility of controlling its angular position, and its axis passes through the point of intersection of the teeth generators and of the axis of the bevel gear (5).

Claims: 2
Fig.: 9