Title (en)

METHOD FOR DETERMINING THE TRANSVERSE CURVE OF A GENERALLY CYLINDRICAL RECEIVING SURFACE

Title (de)

VERFAHREN ZUR BESTIMMUNG DER QUERBIEGELINIE EINER GENERELL ZYLINDERFÖRMIGEN AUFNAHMEFLÄCHE

Title (fr)

PROCÉDÉ DE DÉTERMINATION DU GALBE TRANSVERSAL D'UNE SURFACE DE RÉCEPTION DE FORME GÉNÉRALEMENT CYLINDRIQUE

Publication

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Application

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Abstract (en)

[origin: WO2010146011A1] The invention relates to a method for determining the transverse curve of a generally cylindrical receiving surface intended, during the assembly of a tyre blank, for receiving the components forming a top belt in which wires are arranged at zero degrees in relation to the longitudinal direction, said wires being wound continuously without tension, in which: the elongation rate (A) to be applied to a turn of a zero-degree wire is calculated according to the required pre-tension (A=f(T)), according to the axial position thereof in the tyre; according to the radial position (Rf) of the wire of said turn in the tyre fitted into the mould thereof, the initial radial position (Ri = Rf/(1 +A)) is determined such that the required elongation rate is applied to wire of the turn in question during the shaping thereof in the press; the transverse profile (Rfdp) of the receiving surface is determined, at the axial location of said turn, by subtracting from the initial position of the wire (Ri) the thickness (e) of the components radially arranged inside the turn of said zero-degree wire (Rfdp=Rf/(1 +f(T)) - e).

IPC 8 full level

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