

The invention relates to the tire industry. At first stage a body is assembled, moulded, during moulding the layers of breaker and protector are superimposed, the process of moulding is completed and then at second stage the billet of casing is vulcanized in the mould. At first stage the protector is laid with decreasing thickness from the crown to the arms defined from the ratio $h_n=(0,90-0,93)h_k$, where h_n - thickness of protector in the arm area, h_k - thickness of protector on the crown of casing, and at second stage the billet of casing is formed in the mould with the radius of curvature of protector made on the hyperbolic spiral described by dependence

$$R_l = \pm \frac{(0,45 - 0,60)B}{\gamma_l \pm (0,04 - 0,05)\text{рад.}}$$

where R_l - variable radius of curvature, mm;

B - width of the profile of casing, mm;

γ_l - current angle of hyperbolic spiral.