

EP2594824B1 self-adjusting drive wheel,

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1. A self-adjusting drive wheel, especially chain wheel, comprising a basic body (1, 10) at the circumference of which several tooth segments (2, 11) are provided which are connected with the basic body and which are each circumferentially rotatable or pivotable about an axis substantially extending parallel with respect to the central axis of the basic body (1, 10), wherein at least one elastically resilient spring member is located between adjacent spaced tooth segments (2, 11) and which is supported in opposite recesses (5) of adjacent tooth segments (2, 11), the lateral limiting surfaces (3) of the tooth segments (2, 11) extend continuously radially, the opposite recesses (5) are located in the radially extending limiting surfaces (3) of adjacent tooth segments (2, 11) and the elastically resilient spring members are formed as tensioning sleeves (8, 13).
2. The drive wheel according to claim 1, characterized in that a radial gap (15) with a width of 2-6 mm, especially of 4 mm, is present between adjacent tooth segments (2, 11).
3. The drive wheel according to claim 1 or 2, characterized in that a seal (7, 14) is provided between adjacent tooth segments (2, 11) radially outside of the spring member.
4. The drive wheel according to claim 3, characterized in that the seal (7, 14) is located in two opposite recesses (4) of the radially extending limiting surfaces (3) of adjacent tooth segments (2, 11).
5. The drive wheel according to one of the preceding claims, characterized in that the tooth segments (2, 11) are fixed at the basic body (1, 10) circumferentially spaced from one another.
6. The drive wheel according to one of the preceding claims, characterized in that the fixing points of the tooth segments (2, 11) at the basic body (1, 10) are located on the same pitch diameter as the spring members.
7. The drive wheel according to one of the preceding claims, characterized in that the tensioning sleeves (8, 13) are formed as slotted cylindrical body with linear or zigzag slot (19).