Title (en)

Saw tooth wire

Title (de)

Sägezahndraht

Title (fr)

Fil en dents de scie

Publication

EP 1136599 B1 20031126 (DE)

Application

EP 01106558 A 20010315

Priority

DE 10012561 A 20000315

Abstract (en)

[origin: DE10012561A1] The sawtooth wire, to be used as the doffer clothing at a carding machine, has at least one tooth with a tooth back in a series of alternating concave (32,36) and convex (30,34) surface sections towards the tooth root (21). At least one convex section (30,34) is between two concave sections (28,32,36). At least one of the convex surface sections (40,42), is at the upper end of the tooth back adjacent to the tooth point (26) in the upper one-half of the tooth, or particularly in the upper one-third and especially the upper one-quarter of the tooth back. At least one of the concave and/or convex sections has a curvature with a curve radius of 0.05-0.4 mm and preferably 0.1-0.3 mm and especially 0.2 mm. At least one tooth in the sawtooth wire has a front face (22) which transits to the tooth point in a concave surface section, while a convex surface section is at the tooth back into the point. At least one tooth flank, parallel to the longitudinal line of the wire, has at least one profiling for the tooth, as a profile groove and/or bar along the wire line. An independent claim is included for the production of a sawtooth wire by stamping, where the tooth back has a structure of alternating concave and convex surface sections towards the tooth root. Preferred Features: During the shaping of the start material, and especially by cold shaping with profiling, at least one groove is formed parallel to the wire line and/or at least one bar is along the wire line.

IPC 1-7

D01G 15/88

IPC 8 full level

D01G 15/84 (2006.01); **D01G 15/88** (2006.01)

CPC (source: EP US)

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Cited by

CN102242422A; FR2821863A1; CN106133217A; US10280535B2; WO2007022659A1; WO2015154837A1; EP2603625B1

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