

Title (en)
FOUR-TWIST TWISTING FRAME

Publication
EP 0231807 A3 19880127 (EN)

Application
EP 87100721 A 19870120

Priority
IT 1242086 A 19860205

Abstract (en)
[origin: EP0231807A2] The twisting frame is provided with two pairs of coaxial flyers (20-20', 23-23'), one of said pairs (23-23') being positioned at the side of the other flyers (20-20') and externally thereof, and presenting a greater dimension in length, while the flyers of each pair are of equal size. Means are provided for mutually synchronizing the flyers of each pair, while other means are provided for causing the outer flyers (23-23') to rotate in the opposite direction with respect to the inner flyers (20-20'), preferably at the same speed. The hollow shafts (5-5') carrying the outer flyers (23-23'), which are rotatably supported by the base structure (B) of the twisting frame, rotatably support the hollow shafts (3-3') of the inner flyers (20-20'), and these latter shafts in their turn rotatably support a cradle (1) inside which there are arranged the means (R) for feeding the yarn or sliver (F) to be twisted. The yarn (F) is subjected to a first twist as it reaches one flyer (20'), then it is subjected to a second and third twist as it is passed from one pair of flyers (20-20') to the other pair of flyers (23-23') and finally it is subjected to a fourth twist as it comes out of the last pair of flyers while cooperating with the drawing and collecting means (K, Z).

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D01H 1/10

IPC 8 full level
D01H 1/10 (2006.01)

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D07B 2207/409 (2013.01 - EP)

Citation (search report)
• [X] FR 2235217 A1 19750124 - SLOVENSKA VED TECH SPOLOCNOST [CS]
• [Y] GB 1145261 A 19690312 - GUNNAR HEGGEN HANSEN
• [A] GB 1227376 A 19710407
• [A] CH 272803 A 19510115 - WILLIAM KENYON AND SONS LIMITE [GB], et al

Cited by
CN102345192A; ITBO20110762A1; CN103103639A; EP0522621A1; US5341631A; US6298648B1; WO9855675A1

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