

Title (en)
WIRE KNOTTING MACHINE

Publication
EP 0043393 B1 19840620 (EN)

Application
EP 80302198 A 19800630

Priority
EP 80302198 A 19800630

Abstract (en)
[origin: EP0043393A1] A machine which is operable to twist the end portion (4A) of a cross wire (4) around a longitudinal wire (2) disposed at right angles to the cross wire, and then to twist the cross wire end portion (4A) about the standing portion (4B) of the cross wire, to form a <<knot>>, consists of a knoter die (34) rotatable about the axis of the longitudinal wire (2) to form the first twist, and to force the end portion (4A) of the cross wire (4) operatively against an anvil (58) configured to form the second twist so that both twists are formed in a single operation, although the two twists lie in substantially right angled planes. This substantially doubles the speed at which the knots may be formed in automatic machinery. As optional equipment, other dies (72, 74) may be added for pressing the wire bend formed in the second twist, and the raw end of the cross wire, closely adjacent the longitudinal wire, so that the raw wire ends are shielded. This knot <<finisher>> operation is performed at a station different from that at which the knot is initially formed, so that in an automatic machine, the finishing operation does not reduce the production rate.

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B21F 15/04; **B21F 27/04**

IPC 8 full level
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CPC (source: EP)
B21F 15/04 (2013.01); **B21F 27/12** (2013.01)

Citation (examination)
• DE 553531 C 19320805 - CHARLES ALBERT HOUQUES FOURCAD
• DE 324197 C 19200824 - DUESSELDORFER METALLWERKE, et al
• US 1162675 A 19151130 - BATES ADELMER M [US]

Cited by
CN104759559A; CN109108183A; WO2007088572A1

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