

Title (en)
Method and installation for manufacturing biconical wire

Title (de)
Verfahren und Anlage zur Herstellung von bikonischem Draht

Title (fr)
Procédé et installation de fabrication de fils biconiques

Publication
EP 0904860 A3 20000705 (DE)

Application
EP 98117224 A 19980911

Priority
• DE 19800237 A 19980107
• DE 19743034 A 19970930

Abstract (en)
[origin: EP0904860A2] The method for production of wire with alternating cylindrical and conical sections out of a cylindrical starting material is characterized by the fact that the conical sections are produced by a hot-forming process. The claimed installation includes a heating unit (1) and a forming unit (2).

IPC 1-7
B21B 1/16; **C21D 8/06**; **B21H 7/00**

IPC 8 full level
B21B 1/16 (2006.01); **B21B 45/00** (2006.01); **B21C 37/04** (2006.01); **B21H 8/00** (2006.01); **C21D 8/06** (2006.01); **C21D 9/52** (2006.01); **C21D 9/60** (2006.01)

CPC (source: EP US)
B21B 1/16 (2013.01 - EP US); **C21D 8/06** (2013.01 - EP US)

Citation (search report)
• [XA] DE 1752609 A1 19710603 - BRUENINGHAUS GMBH STAHLWERKE
• [XA] DE 3434226 A1 19860327 - LINDEMANN WOLFGANG [DE]
• [A] DE 1602680 A1 19700409 - BRUENINGHAUS GMBH STAHLWERKE
• [A] JP S4830546 B1 19730921
• [XA] PATENT ABSTRACTS OF JAPAN vol. 005, no. 193 (M - 101) 9 December 1981 (1981-12-09)
• [XA] PATENT ABSTRACTS OF JAPAN vol. 015, no. 443 (M - 1178) 12 November 1991 (1991-11-12)
• [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 03 28 April 1995 (1995-04-28)
• [A] PATENT ABSTRACTS OF JAPAN vol. 005, no. 166 (M - 093) 23 October 1981 (1981-10-23)

Cited by
EP2157194A1; EP2282855A4

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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EP 0904860 A2 19990331; **EP 0904860 A3 20000705**; JP H11169991 A 19990629; US 6035686 A 20000314

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EP 98117224 A 19980911; JP 27511098 A 19980929; US 16222898 A 19980929