

Title (en)

METHOD FOR DRAWING, STRAIGHTENING AND CUTTING STEEL WIRE INTO BARS

Title (de)

VERFAHREN ZUM ZIEHEN, RICHTEN UND SCHNEIDEN VON STAHLDRÄHTEN ZU STANGEN

Title (fr)

MÉTHODE POUR ÉTIRER, REDRESSER ET COUPER LE FIL D'ACIER EN BARRES

Publication

**EP 4327955 A1 20240228 (EN)**

Application

**EP 23192610 A 20230822**

Priority

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Abstract (en)

The present invention concerns a method for drawing, straightening and cutting steel wire into bars suitable for use in fence panels, comprising the sequential steps of: (i) providing a steel wire; (ii) drawing the steel wire through a rolling cassette until a predetermined diameter is reached, the rolling cassette comprising two successive sets of three rollers, such that a second set of rollers is positioned downstream of a first set of rollers; (iii) the rolling up and cooling of the steel wire; (iv) unrolling and straightening the steel wire; and (v) cutting the steel wire into bars; where the steps i. to v. continue continuously.

IPC 8 full level

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Citation (applicant)

- BE 1021090 B1 20150512 - INTERSIG NV [BE]
- EP 0565090 A1 19931013 - ZUMBACH ELECTRONIC AG [CH]

Citation (search report)

- [Y] US 3552164 A 19710105 - PROPERZI ILARIO
- [Y] JP H04200803 A 19920721 - NIPPON STEEL CORP, et al
- [Y] JP 2020062649 A 20200423 - NIPPON STEEL CORP, et al
- [Y] US 3981752 A 19760921 - KRANENBERG HELMUT, et al
- [A] JP S61159217 A 19860718 - ASAHI CHEMICAL IND
- [A] US 4141071 A 19790220 - YERKES RONALD W, et al
- [Y] US 5305624 A 19940426 - BACKHAUS KARL [DE]
- [Y] HAGIHARA H ET AL: "DEVELOPMENT OF HIGH PERFORMANCE STEEL BARS USING "4-ROLL ROLLING TECHNOLOGY" AND TMCP", REVUE DE METALLURGIE- CAHIERS D'INFORMATIONS TECHNIQUES,, vol. 96, no. 7/08, 1 July 1999 (1999-07-01), pages 911 - 918, XP000865196, ISSN: 0035-1563
- [Y] AMMERLING W J: "ENERGY SAVING IN 3-ROLL MILLS FOR WIRE ROD AND BAR", STEEL TIMES, FUEL & METALLURGICAL JOURNALS LTD. LONDON, GB, vol. 221, no. 6, 1 June 1993 (1993-06-01), pages 256, 259 - 260, XP000387220, ISSN: 0039-095X

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