

Title (en)

Wire saw having a wire management system allowing for wire rollers of very large length

Title (de)

Drahtsäge mit einem Drahtmanagementsystem dass eine Verwendung von Drahtzylindern sehr grosser Länge erlaubt

Title (fr)

Dispositif de sciage par fil équipé d'un système de gestion de fil permettant l'utilisation de bobines de fil de très grande longueur

Publication

EP 0767036 A1 19970409 (FR)

Application

EP 96115198 A 19960921

Priority

CH 277795 A 19951003

Abstract (en)

The wire sawing device has a sawing zone (40), in which a workpiece (9) contacts the reciprocating or continuously moved wire (1), and a wire management system (41a), which includes a fresh wire feed spool (2a) and a used wire reception spool (14a). The wire management system includes one or more rotating unwinding and/or rewinding devices (42) which move around the periphery of the spool and which unwind and/or rewind the wire at a controllable rate. The wire is in the form of a layer (8) of parallel wires in the sawing zone, the two spools are mounted stationarily on supports and the wire management system comprises two rotating devices acting as wire travel rate and tension regulators. Each rotating device includes a winding head, which is mounted for movement around the spool periphery and which has one or more first return elements for guiding the wire to or from the spool in the direction of a second return element.

Abstract (fr)

Le dispositif de sciage comprend une nappe de fils parallèles (8) se déplaçant selon un mouvement alternatif ou continu en appui contre une pièce à scier (9) fixée sur une table support (10). Le fil provient d'une zone de gestion du fil (41a) constitué de deux bobines de fils débitrice (2a) et réceptrice (14a) non rotatives, mais ayant un organe rotatif de bobinage et de débobinage (42) autour desdites bobines permettant de rendre le dispositif de sciage indépendant de la masse des bobines de fils (2a,14a) donc de la longueur du fil. <IMAGE>

IPC 1-7

B28D 5/04; **B23D 57/00**

IPC 8 full level

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Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 95, no. 008

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