

Title (en)

Method of and installations for producing wires of amorphous metallic alloys.

Title (de)

Verfahren und Vorrichtungen zum Erzeugen von Drähten aus amorphen Metallegierungen.

Title (fr)

Procédés et dispositifs pour obtenir des fils en alliages métalliques amorphes.

Publication

**EP 0360104 A1 19900328 (FR)**

Application

**EP 89116705 A 19890909**

Priority

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Abstract (en)

Method of and installation (20) for producing a wire (12) of an amorphous metallic alloy, which are characterised in that a jet (7) of alloy (4) which can be rendered amorphous and is molten is placed in contact with a gas (55) capable of reacting chemically with at least one of the constituents of the alloy (4) before the jet (7) reaches a cooling liquid (9), in such a way as to form a layer around the jet (7) which is capable of stabilising the latter. <??>Amorphous wires (12) produced with this method and this installation, articles reinforced by these wires. <IMAGE> <IMAGE> (see back)

Abstract (fr)

Procédé et dispositif (20) pour obtenir un fil (12) en alliage métallique amorphe, caractérisés en ce qu'un jet (7) d'alliage amorphisable (4) fondu est mis au contact d'un gaz (55) susceptible de réagir chimiquement avec au moins un des constituants de l'alliage (4) avant que le jet (7) ne parvienne à un liquide refroidisseur (9), de façon à former une couche autour du jet (7) susceptible de stabiliser celui-ci. Fils amorphes (12) obtenus avec ce procédé et ce dispositif, articles renforcés par ces fils.

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Citation (search report)

- [A] DE 3135374 A1 19820916 - ENERGY CONVERSION DEVICES INC [US]
- [A] EP 0163226 A2 19851204 - UNITIKA LTD [JP]
- [AD] US 4523626 A 19850618 - MASUMOTO TSUYOSHI [JP], et al
- [AD] FR 2367563 A1 19780512 - MICHELIN & CIE [FR]
- [AD] US 3845805 A 19741105 - KAVESH S

Cited by

US5477910A; FR2672522A1; EP0502802A1; FR2673551A1; TR25618A; WO9213660A1

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