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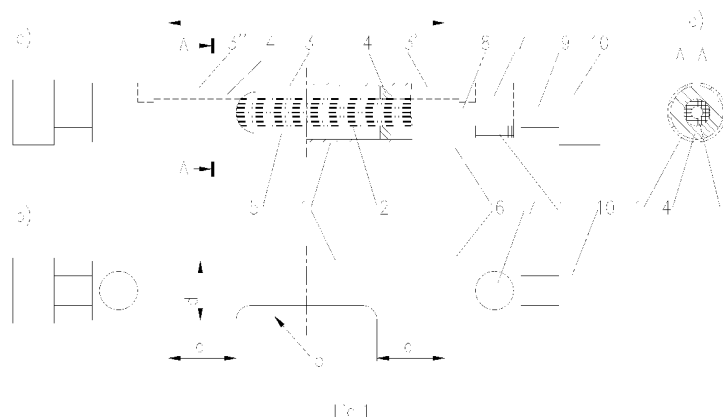
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(54) Title: RESISTIVE EVAPORATOR



(57) Abstract: The invention relates to devices for vacuum evaporation of metals and alloys. It may be used, for example, for depositing comparatively thick coatings onto roll substrates and disperse materials in lengthy processes, as well as for producing free metal foils. The evaporator includes a thin-wall pipe (1) with a porous core (2) symmetrically installed inside the pipe. Thereby a semiclosed space between pipe (1) and porous core (2) is formed. Zone (3) of the said space is an evaporation chamber, which is located in the middle part of the evaporator. A vapour output aperture (5) is made in the pipe opposite the evaporation chamber. The vapour flows through the said aperture (5) and the coating is deposited onto a substrate. In accordance with this invention additional partitions (4) and fluctuation damping chamber (3') and (3'') are formed at both sides of the evaporation chambers. In the said fluctuation damping chambers pipe (1) has no apertures for vapour output in the substrate direction. Molybdenum contacts (6) fit in both ends of the pipe and porous core in order to provide reliable electrical and mechanical contact.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C23C14/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 945 163 A (POWELL RICKY C [US] ET AL) 31 August 1999 (1999-08-31) column 4, line 66 - column 5, line 18 -----	1-3
A	US 5 230 923 A (HIROKAWA ATSUSHI [JP] ET AL) 27 July 1993 (1993-07-27) cited in the application column 5, line 52 - column 6, line 17 -----	1-3

Further documents are listed in the continuation of Box C.

See patent family annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5945163	A	31-08-1999	AU	2237599 A	06-09-1999
			WO	9942634 A1	26-08-1999
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US 5230923	A	27-07-1993	NONE		
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