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.
# INTERNATIONAL SEARCH REPORT

## 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 database consulted during the international search (name of database and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tr>
<td>A</td>
<td>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</td>
<td>1-3</td>
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* Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

*"A"* document defining the general state of the art which is not considered to be of particular relevance

*"E"* earlier document but published on or after the international filing date

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*"O"* document referring to an oral disclosure, use, exhibition or other means

*"P"* document published prior to the international filing date but later than the priority date claimed

** Date of the actual completion of the international search: 7 January 2009

** Date of mailing of the international search report: 16/01/2009

** Name and mailing address of the ISA:

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax (+31-70) 340-3016

** Authorized officer: Ekhult, Hans

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<td>US 5945163 A</td>
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