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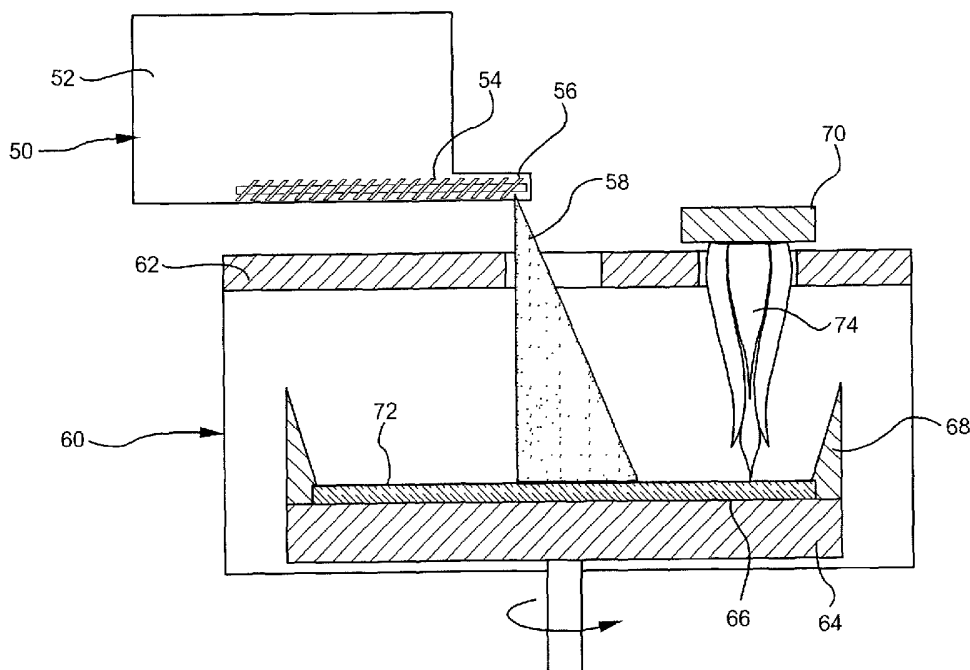
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(54) Title: METHOD AND APPARATUS FOR MANUFACTURING SILICA-TITANIA EXTREME ULTRAVIOLET ELEMENTS



(57) Abstract: Methods and apparatus for manufacturing titania-containing fused silica bodies are disclosed. The titania-containing fused silica bodies are subsequently processed to make extreme ultraviolet soft x-ray masks. The methods and apparatus involve providing powders external to a furnace cavity and depositing the powders in the furnace cavity to form a titania-containing fused silica body.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C03C4/00 C03C3/06 C03B8/04 C03B19/14

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)

IPC 7 C03C C03B

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, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CHARLES A. HARPER: "Handbook of ceramics, glasses and diamonds" 2001, MCGRAW-HILL, COP., NEW YORK XP002243691 see chapter six: 6.2.9 High-Silica Glasses, paragraph 6.2.9.3 ---	1-12
P,A	WO 02 088035 A (CORNING INC ;RUSSO NIKKI J (US); HRDINA KENNETH E (US); WASILEWSKI) 7 November 2002 (2002-11-07) claim 24; figure 2 ---	1-12
P,A	WO 02 088036 A (ACKERMAN BRADFORD G ;CORNING INC (US); RUSSO NIKKI J (US); MOORE L) 7 November 2002 (2002-11-07) page 2, line 6 - line 9; claims 1,9,16,17 -----	1-12

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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