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(54) Title: NEW COBALT PRECURSORS FOR SEMICONDUCTOR APPLICATIONS

(57) Abstract: Methods and compositions for depositing a cobalt containing film on one or more substrates are disclosed herein. A cobalt precursor, which comprises at least one pentadienyl ligand coupled to the cobalt for thermal stability, is introduced into a reaction chamber containing one or more substrates, and the cobalt precursor is deposited to form a cobalt containing film onto the substrate.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C23C16/18 C23C16/30 C23C16/34 C23C16/40 C07F15/06

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)
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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, INSPEC, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	WO 2005/098938 A (APPLIED MATERIALS INC [US]; GANGULI SESHADRI [US]; SHAH KAVITA [US]; M) 20 October 2005 (2005-10-20) page 19, paragraph 64	1,20
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