

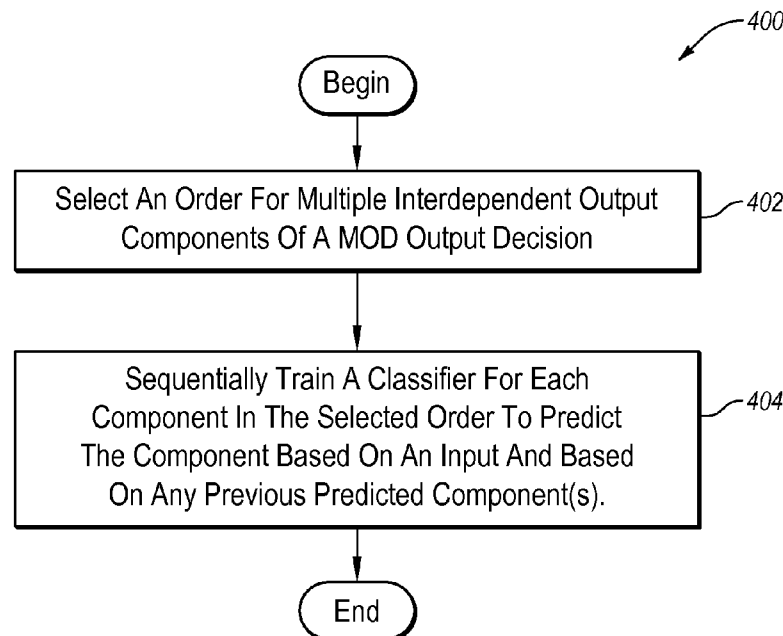


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[Continued on next page]

(54) Title: HIERARCHICAL BASED SEQUENCING MACHINE LEARNING MODEL



**FIG. 4**

(57) Abstract: A hierarchical based sequencing (HBS) machine learning model. In one example embodiment, a method of employing an HBS machine learning model to predict multiple interdependent output components of an MOD output decision may include determining an order for multiple interdependent output components of an MOD output decision. The method may also include sequentially training a classifier for each component in the selected order to predict the component based on an input and based on any previous predicted component(s).

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**A. CLASSIFICATION OF SUBJECT MATTER**

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USPC - 705/7.11, 14.4

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 practicable, search terms used)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); ProQuest; IEEE/IEEExplore; Google/Google Scholar; learn, train, predict, model, dependent, interdepend, decision, tree

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/0249844 A1 (ABE, N et al.) 9 October 2008; figures 2, 7; paragraphs [0013], [0015], [0017], [0021], [0022], [0029], [0065], [0066], [0074], [0076], [0079], [0090]-[0092], [0104]-[0106], [0109], [0110], [0112], [0130], [0141], [0148], [0149], [0152], [0153], [0179], [0180]	1-21
A	US 2005/0265607 A1 (CHANG) 1 December 2005; entire document	1-21
A	US 2011/0153419 A1 (HALL, III) 23 June 2011; entire document	1-21

Further documents are listed in the continuation of Box C.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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