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(54) Title: LAZY LOADING FOR DESIGN VIEWS SYSTEM AND SERVER

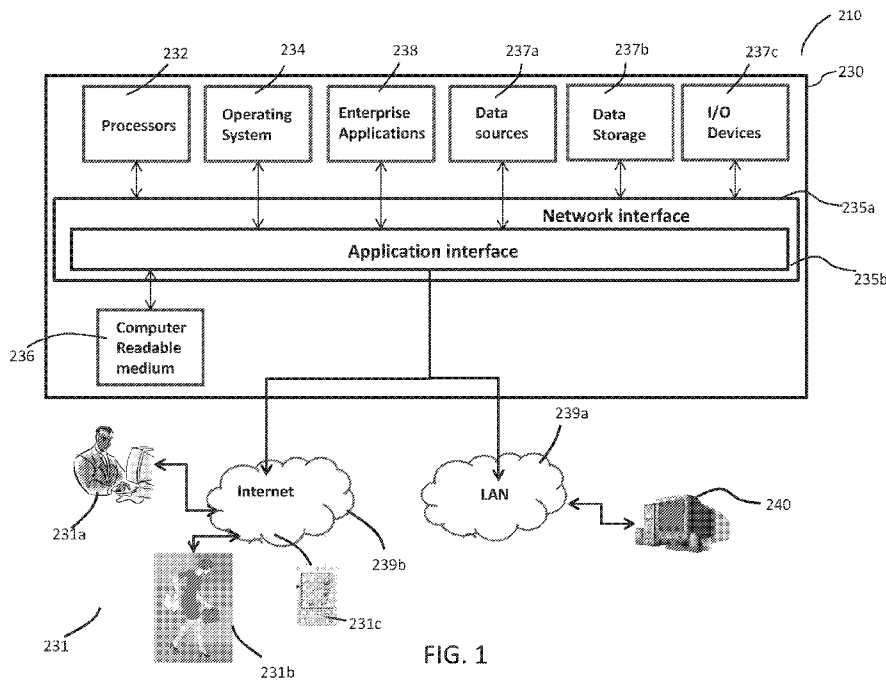


FIG. 1

(57) Abstract: Systems and methods for improving 2D and/or 3D model execution in a runtime environment are disclosed. The system uses a novel form of lazy loading to limit the amount of computer resources used when initially viewing a model or drawing. The system also allows for setting which components of a rendering software to load / not load when a model file is selected. The system provides a picture of the a 2D and/or 3D model view in place of the full model upon selection of the model file, and additional attributes and/or rendering software components are called as needed as part of the lazy loading execution when the model is loaded into the runtime environment.



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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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & keywords: three-dimensional model. lazy loading, picture, portion, resource, render

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2018-0315238 A1 (MICROSOFT TECHNOLOGY LICENSING, LLC) 01 November 2018 paragraphs [0018], [0027], [0042], [0071], [0078]; claims 1, 17; and figures 1-2, 7-8	1-20
A	WO 2017-123163 A1 (NEXTGEN SHOPPING PTE. LTD.) 20 July 2017 paragraphs [0023], [0056]; claims 1-2; and figure 2	1-20
A	US 2012-0105449 A1 (JOHN CHRISTOPHER BUCHOWSKI et al.) 03 May 2012 paragraphs [0142]-[0144]	1-20
A	US 2017-0213379 A1 (DAVID BALDWIN et al.) 27 July 2017 paragraphs [0049]-[0050], [0083]	1-20
A	US 9865085 B1 (ANALYTICAL GRAPHICS, INC.) 09 January 2018 column 3, lines 59-67; column 11, lines 23-26; and figure 15	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

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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
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