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MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
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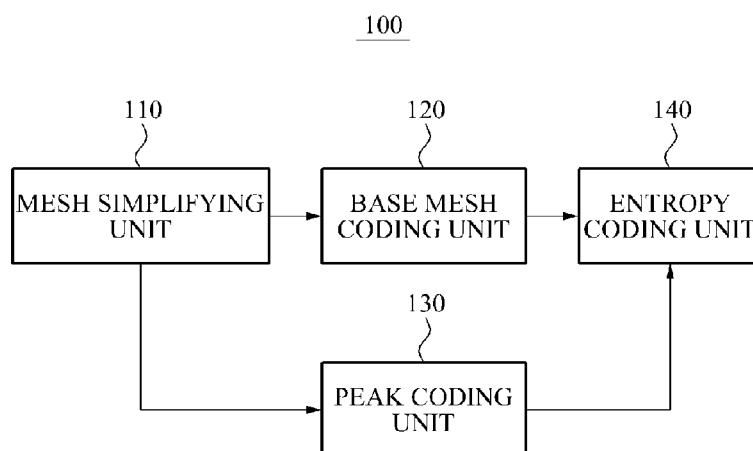
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[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR CODING A THREE DIMENSIONAL MESH

[Fig. 1]



(57) Abstract: Disclosed is a three-dimensional (3D) mesh compression apparatus and method. The 3D mesh compression apparatus may generate a base mesh through a mesh simplification, may separately compress the base mesh and peaks eliminated by the simplification, may construct a covariance matrix based on a topological distance between the eliminated peaks, and may compress 3D mesh data based on the covariance matrix.



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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)

G06T 17/10; G06T 15/30; G06T 15/00; G08C 19/12; G06T 9/00

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: mesh, compression

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002-0063707 A1 (AKIRA KAWANAKA) 30 May 2002 See abstract; paragraphs [0005]-[0029]; claims 1, 10; figure 5.	1-29
A	US 2007-0194975 A1 (Samsung Electronics Co., Ltd.) 23 August 2007 See abstract; paragraphs [0010]-[0019]; claims 21, 22; figure 2.	1-29
A	KR 10-2005-0006323 A (SEOUL NATIONAL UNIVERSITY) 17 January 2005 See abstract; claim 1; figure 3.	1-29



Further documents are listed in the continuation of Box C.



See patent family annex.

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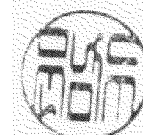
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Information on patent family members

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