

(54) Title of the invention : AN AI-BASED SYSTEM AND METHOD FOR GENERATING ARCHITECTURAL DESIGNS OF INSTITUTIONAL BUILDINGS

(51) International classification :E04F 190200, G06F 301300, H04M 032200, H04M 150000, H04M 150800

(86) International Application No :NA
Filing Date :NA

(87) International Publication No :NA

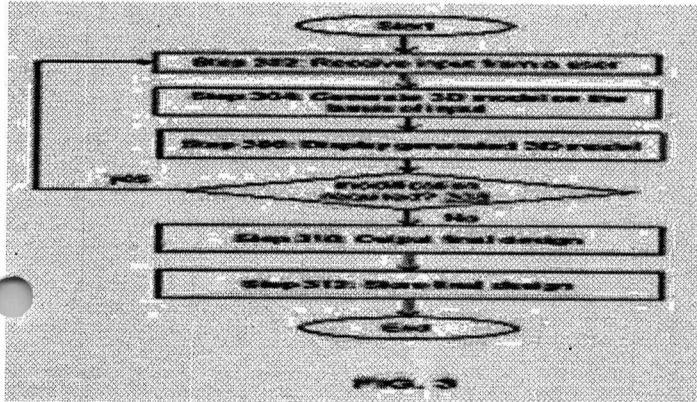
(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention relates to an AI-based system and method for generating architectural designs of institutional buildings. The system includes an input module (202), a rendering module (204), an autonomous control module (206), an evaluation module (208), a collaboration module (210), a modification engine (212), a simulation module (214), and a storage module (216). The input module (202) receives user inputs regarding desired building features, while the rendering module(204) generates a 3D model based on these inputs. The autonomous control module (206) adjusts the 3D model based on external factors, and the evaluation module (208) assesses compliance with relevant standards. The collaboration module (210) enables multiple users to provide feedback, while the simulation module (214) tests performance under various conditions. The system is hosted on a platform (116), and designs can be stored for future reference.



No. of Pages : 28 No. of Claims : 10