

ABSTRACT

A drawing verification system comprising a server apparatus that establishes a session pertaining to verification of drawing information composed based on a facility specification, and a plurality of client apparatuses that connect to the session via a network and perform information communication, wherein the verification in the session is performed by laying out rendering object information used to render an object included in the drawing information in a virtual 3D space based on layout information that corresponds to the drawing information and indicates a position and posture of the object, the server apparatus comprises: management means for managing state information indicating a state of the 3D space that is a verification target of the session which is established upon receiving a session start request from one of the plurality of client apparatuses; first reception means for receiving information of a verification input made at each of the plurality of client apparatuses participating in the session; change means for changing the state information upon receiving the information of the verification input by the first reception means; and first transmission means for transmitting, to the client apparatuses connected to the session, shared information necessary to render the 3D space based on the state information, and each of the plurality of client apparatuses comprises: second reception means for connecting to the session and receiving the shared information transmitted by the first transmission means; construction means for constructing at least part of the 3D space based on the shared information received by the second reception means, the rendering object information, and the layout information; decision means for deciding a position and direction of a viewpoint at which the constructed 3D space is rendered; output means for sequentially rendering and outputting views of binocular stereoscopic vision of the constructed 3D space rendered based on the viewpoint decided by the decision means; presentation means for presenting the views of binocular stereoscopic vision rendered and output by the output means; input means for accepting the verification input; and second transmission means for transmitting, to the server apparatus, the information of the verification input accepted by the input means.