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(54) Title: SYSTEM AND METHOD OF OPERATION FOR REMOTELY OPERATED VEHICLES WITH SUPERIMPOSED 3D IMAGERY

(57) Abstract: The present invention provides a system and method of utilizing superimposed 3D imagery for remotely operated vehicles, namely 3D, reconstructed images of the environment of the ROV. In another aspect, it includes generating a virtual video of 3D elements in the operation environment, synchronizing the angle and position of the camera of a virtual video with the angle and position of a real camera, superimposing the virtual video and the real video from the real camera; superimposing these video feeds such that one is manipulated to show transparencies in areas of less interest, in order to show through the other video. It furthermore may include superimposing information, whether graphic, textual or both on to the hybrid virtual-real 3D imagery. The subject invention is also networked, such that the immersive visual interface described above is accessible to a plurality of users operating from a plurality of locations.

