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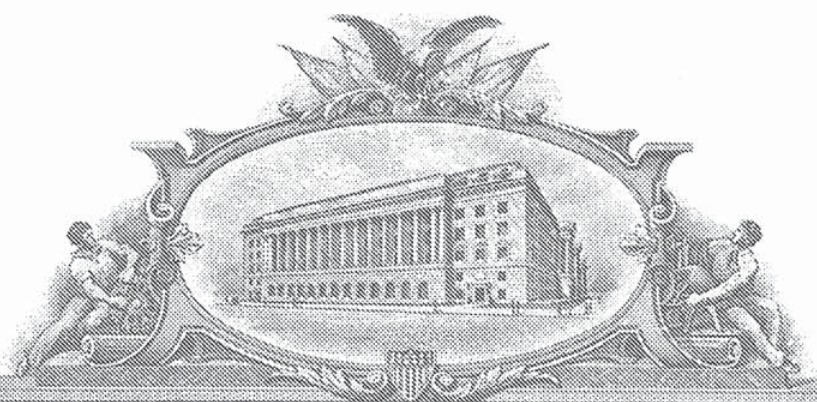
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System with 3D user interface integration5 **Abstract**

Disclosed is a system comprising a handheld device and at least one display, where the handheld device is adapted for performing at least one action in a physical 3D environment, where the at least one display is adapted for
10 visually representing the physical 3D environment, and where the handheld device is adapted for remotely controlling the view with which the 3D environment is represented on the display.

(fig. 2a) should be published)

Claims:

- 5 1. A system comprising a handheld device and at least one display, where the handheld device is adapted for performing at least one action in a physical 3D environment, where the at least one display is adapted for visually representing the physical 3D environment, and where the handheld device is adapted for remotely controlling the view with which the 3D environment is represented on the display.
- 10 2. The system according to any one or more of the preceding claims, wherein the view is defined as viewing angle and/or viewing position.
- 15 3. The system according to any one or more of the preceding claims, wherein the handheld device is adapted for remotely controlling the magnification with which the 3D environment is represented on the display.
- 20 4. The system according to any one or more of the preceding claims, wherein the handheld device is adapted for changing the rendering of the 3D environment on the display.
- 25 5. The system according to any one or more of the preceding claims, wherein the at least one action comprises one or more of:
- measuring,
 - recording,
 - scanning,
 - manipulating, and/or
 - modifying.
- 30 6. The system according to any one or more of the preceding claims, wherein the 3D environment comprises one or more 3D objects.

7. The system according to any one or more of the preceding claims, wherein the handheld device is adapted to be held in one hand by an operator.
- 5 8. The system according to any one or more of the preceding claims, wherein the display is adapted to represent the 3D environment from multiple views..
9. The system according to any one or more of the preceding claims, wherein the view of the 3D environment represented in the at least one display is at least partly determined by the motion of the operator's hand holding said device.
- 10 10. The system according to any one or more of the preceding claims, wherein the magnification represented in the at least one display is at least partly determined by the motion of the operator's hand holding said device.
- 15 11. The system according to any one or more of the preceding claims, wherein the handheld device is adapted to record the 3D geometry of the 3D environment.
- 20 12. The system according to any one or more of the preceding claims, wherein the 3D geometry of the 3D environment is known a-priori.
13. The system according to any one or more of the preceding claims, wherein the handheld device comprises at least one user-interface element.
- 25 14. The system according to any one or more of the preceding claims, wherein the at least one user-interface element is at least one motion sensor.

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