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(54) Title: SYSTEM FOR DISPLAYING AN INTERACTIVE TRAINING SCENARIO AND DETERMINING THE POSITION OF RELEVANT OBJECTS IN A TRAINING AREA

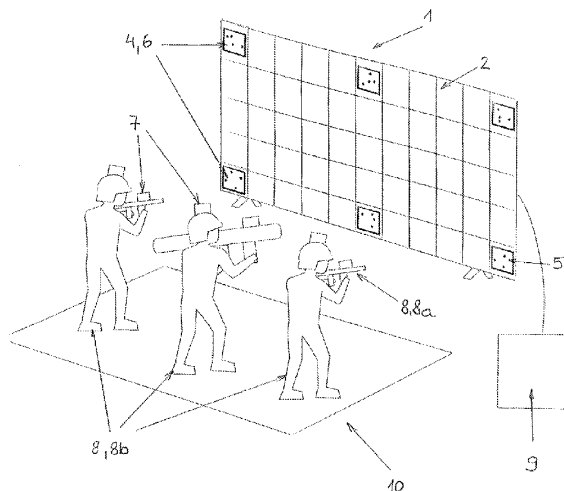


Fig. 1

(57) Abstract: A system for displaying an interactive training scenario and determining the position of relevant objects (8) in a training area (10) comprises a screen (1) consisting of panels (2) containing lighting units (3) emitting light in the visible light spectrum. The positioning patterns (6) are generated on an IR module (4) that comprises IR lighting elements (5) arranged in an array having grid distribution. The grid distribution of IR lighting units (5) substantially coincides with the array of pixels on the panel (2). The IR modules (4) are controlled by the IR control software module which, using an algorithm, switches individual IR lighting units (5) inside a respective IR module (4) on and off, so that at least one positioning pattern (6) is generated on one IR module (4), which is captured by the positioning camera (7). The IR lighting units (5) may be integrated in the panel (2) such that respective lighting units (3) of the

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panel (2) in a certain pixel (2a) are either replaced by IR lighting units (5) or IR lighting units (5) are added to a certain pixel (2a) next to a lighting unit (3). An IR module (4) can be positioned on the panel (2) in a way that the IR lighting units (5) are connected to an IR module (4) on a transparent circuit board (4b) that is arranged on the front side of the panel (2).