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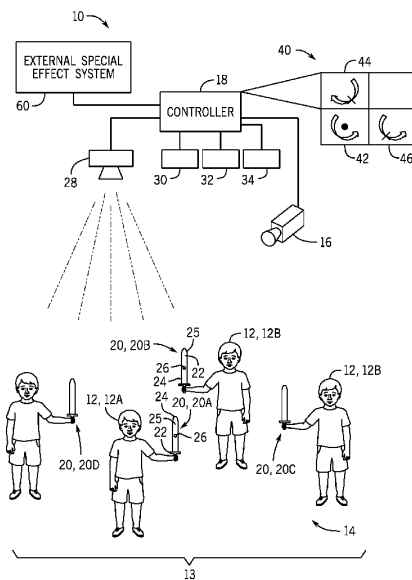


FIG. 1

(57) Abstract: An interactive object control system (10) includes processing circuitry (18) with one or more processors (50) and memory (52) storing instructions, that when executed by the processing circuitry (18) cause the processing circuitry (18) to send instructions to an interactive object (20) to cause one or more object emitters (25) of the interactive object (20) to emit light; receive photodiode array data from one or more photodiode arrays (30), wherein the photodiode array data is indicative of detection of the light emitted by the one or more object emitters (25) of the interactive object (20); determine a position of the interactive object (20) in an interactive environment (14) based on the photodiode array data; receive image data from one or more cameras (16); identify the interactive object (20) in the image data based on the position of the interactive object (20) in the interactive environment (14) and an indication of reflected light in the image data.

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