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(57) Abstract :

The present invention relates to a smart LED blackboard system (100) comprising a smart blackboard (102) and a lighting pen (104) wherein the smart blackboard (102) is configured with array-like matrix arrangements of pixels (204) comprising a first lighting source (216), a light detecting device (222), a control unit (304) that receives the first set of signals from light detecting device (222) upon illuminated by the lighting pen (104) and to transmits second sets of signals to lights up the first, second and third lighting source when the lighting pen (104) transmits white light. On the movement of the lighting pen (104) the pixels (204) turns on the first lighting source (216), the second lighting source (218), and the third lighting source (220) to form a meaningful text, numerals, or graphics as written by the user.

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