



US005331176A

# United States Patent [19]

Sant' Anselmo et al.

[11] Patent Number: **5,331,176**

[45] Date of Patent: **Jul. 19, 1994**

- [54] **HAND HELD TWO DIMENSIONAL SYMBOL READER WITH A SYMBOL ILLUMINATION WINDOW**
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- [21] Appl. No.: 866,059
- [22] Filed: Apr. 10, 1992
- [51] Int. Cl.<sup>5</sup> ..... G06K 7/10
- [52] U.S. Cl. .... 250/566; 235/472
- [58] Field of Search ..... 250/556, 555, 566, 233, 250/237 R, 201.7, 203.2, 205; 235/462, 472, 494, 487, 484, 485, 454, 456, 473

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### [57] ABSTRACT

A symbol reader which projects an illumination window or field that is the same size as a field of view of a sensor used to read a symbol. The illumination window is aligned with the field of view of the sensor. The window or field can provide an area of relatively constant illumination or edges of the window or field can be at a higher illumination creating an outline or capture border. The outline alone can be projected when the ambient light level is sufficient for capture of the symbol. The window or field can be created by projecting light from various light sources.

- [56] **References Cited**  
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14 Claims, 12 Drawing Sheets

