

[54] UNIT FOR DISPLAY OF INFORMATION ON A READING DEVICE FOR THE BLIND

Attorney, Agent, or Firm—Cullen, Sloman, Cantor, Grauer, Scott & Rutherford

[75] Inventor: Joachim Burchart, Schlangen, Fed. Rep. of Germany

[57] ABSTRACT

[73] Assignee: Nixdorf Computer AG, Paderborn, Fed. Rep. of Germany

The invention relates to a device for displaying information on a reading unit for the blind. Instead of character fields arranged with certain spacings apart from one another for displaying Braille characters, the reading table is occupied by a dense matrix of character elements (4) with uniform line and column spacings. In the totality of character elements, certain character fields (6) are provided which serve for displaying the Braille characters. These are surrounded by other character elements which are not set in the displaying of Braille text, so that the Braille characters have the required spacing apart from one another. The whole reserve of character elements (4) is used for reproducing large-area graphics, large symbols, tables or the like. With a certain arrangement, described in detail, of the character elements, all of the information displayable on a viewing screen can be reproduced on the reading table, with the exception of reverse-brightness information and that displayed in colors.

[21] Appl. No.: 688,583

[22] Filed: Jan. 3, 1985

[30] Foreign Application Priority Data

Jan. 3, 1984 [DE] Fed. Rep. of Germany 3400093

[51] Int. Cl.⁴ G09B 21/00

[52] U.S. Cl. 434/113

[58] Field of Search 346/21; 434/113, 114, 434/115; 364/523

[56] References Cited

U.S. PATENT DOCUMENTS

3,197,889	8/1965	Micropoulou	434/113
3,594,787	7/1971	Ickes	434/114 X
3,624,772	11/1971	Grunwald	434/114 X
3,736,672	6/1973	Skewis	434/114
4,475,162	10/1984	Kitamura	364/523
4,504,825	3/1985	Bergermann	364/523 X

A number of embodiment examples are described which are intended especially for reproducing video text or viewing screen texts on a reading unit for the blind.

Primary Examiner—William H. Grieb

16 Claims, 3 Drawing Sheets

