

EUROPEAN PATENT APPLICATION

Application number: **84201233.8**

Int. Cl. 4: **G 09 G 1/16**

Date of filing: **28.08.84**

Priority: **01.09.83 GB 8323400**

Applicant: **PHILIPS ELECTRONIC AND ASSOCIATED INDUSTRIES LIMITED, Arundel Great Court 8 Arundel Street, London WC2R 3DT (GB)**

Designated Contracting States: **GB**

Date of publication of application: **10.04.85**
Bulletin 85/15

Applicant: **N.V. Philips' Gloeilampenfabrieken, Groenewoudseweg 1, NL-5621 BA Eindhoven (NL)**

Designated Contracting States: **BE DE FR IT NL SE**

Designated Contracting States: **BE DE FR GB IT NL SE**

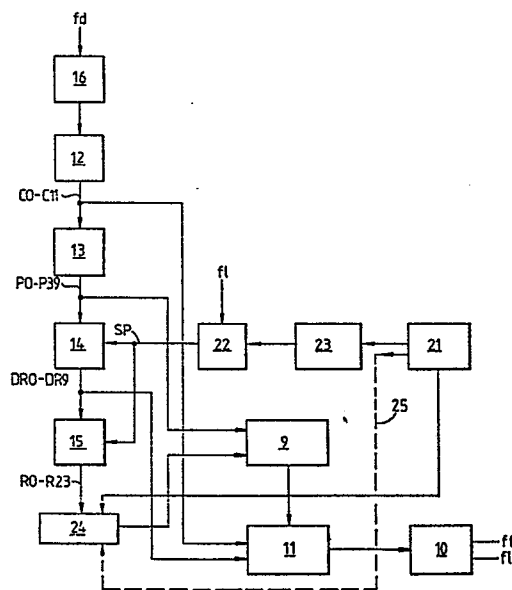
Inventor: **Bugg, Richard Edward Frederick, C/O MULLARD LIMITED New Road, Surrey CR4 4XY (GB)**

Date of deferred publication of search report: **15.05.85 Bulletin 85/20**

Representative: **Boxall, Robin John et al, Philips Electronic and Associated Ind. Ltd. Patent Department Mullard House Torrington Place, London WC1E 7HD (GB)**

Data display arrangement with smooth scrolling.

A data display arrangement in which rows of characters are displayed on a CRT, the display information for the characters being provided by stored data which is accessed recurrently for its display in successive scanning fields. Scrolling of the displayed rows of characters is achieved by progressively delaying the start of the addressing of the stored data relative to the start of each scanning field. By using a row mapping memory, the scrolling principle can be extended such that any row of characters can be displayed at any character row position of the display. This, for instance, enables a display not covering the entire screen to be readily centred. Figure 3 shows a block diagram of the scrolling arrangement.





| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|---|---|--|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int. Cl.4) |
| X | US-A-3 614 766 (J.M. KIEVIT) * figures 2,9A-D; column 1, lines 16-22; column 10, line 59 - column 12, line 62; column 13, lines 6-11; column 13, line 31 - column 14, line 6 * | 1,3,6,7 | G 09 G 1/16 |
| A | --- WO-A-8 202 263 (FALCO DATA PRODUCTS INC.) * figure 3; page 20, line 11 - page 21, line 28 * | 1,7 | |
| A | --- US-A-4 320 395 (R. MEISSEN) * figures 2,3; column 4, line 20 - column 5, line 41; column 7, line 13 - column 8, line 31 * | 1 | |
| A | --- GB-A-2 084 836 (STANDARD MICROSYSTEMS CORP.) * figure 4; page 4, line 125 - page 5, line 63 * | 3-4 | |
| | | | TECHNICAL FIELDS SEARCHED (Int. Cl.4) |
| | | | G 09 G 1/16 |
| The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 08-01-1985 | Examiner VAN ROOST L.L.A. |
| CATEGORY OF CITED DOCUMENTS | | | |
| X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |

