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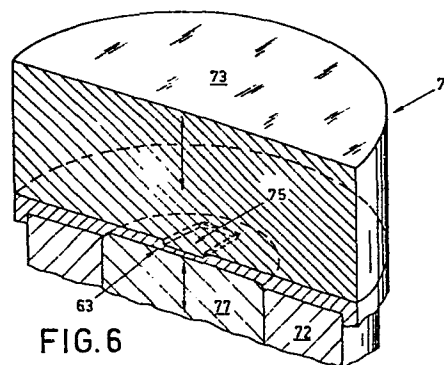
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(54) **Method of fabricating a cathode-ray tube and an improved electron gun electrode member for a cathode-ray tube fabricated by this method.**

(57) A electron gun electrode is provided with an improved beam shaping region having an elongated recess coined in the upper electrode surface and an opposed coined depression in the lower surface. The double coining fabrication method assures a sharp perimetrical edge about at least the central portion of the recess, such being an important influence in achieving improved beam shaping lensing.



**FIG. 6**



European Patent  
Office

# EUROPEAN SEARCH REPORT

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EP 81 20 0833

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                   |                                                                                                                                                                       |                                  | CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                                                                                              | Citation of document with indication, where appropriate, of relevant passages                                                                                         | Relevant to claim                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| A                                                                                                     | <p><u>US - A - 2 971 108</u> (W.A. DICKINSON et al.)</p> <p>* Column 1, line 72 to column 2, line 36; figures 1,3 *</p> <p>--</p>                                     | 1,6                              | <p>H 01 J 29/48</p> <p>H 01 J 9/02</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A                                                                                                     | <p><u>US - A - 3 628 077</u> (C.F. BOSSERS)</p> <p>* Column 2, lines 44 to 71; figures 2,3 *</p> <p>--</p>                                                            | 1,4,6,11                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| A                                                                                                     | <p><u>US - A - 4 071 932</u> (A.W. STANDAART et al.)</p> <p>* Column 6, lines 22 to 43; figure 3 *</p> <p>--</p>                                                      | 1,6                              | <p>TECHNICAL FIELDS SEARCHED (Int.Cl. 3)</p> <p>H 01 J 29/48</p> <p>9/02</p> <p>1/46</p> <p>19/38</p> <p>29/56</p> <p>29/62</p> <p>29/50</p>                                                                                                                                                                                                                                                                                                                                                             |
| A                                                                                                     | <p><u>US - A - 2 935 636</u> (R.C. KNECHTLI)</p> <p>* Column 2, lines 11 to 29; figure 2 *</p> <p>--</p>                                                              | 1,6                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PX                                                                                                    | <p><u>DE - A - 3 018 569</u> (HITACHI LTD.)</p> <p>* Page 1, lines 1-15; page 16, line 11 to page 17, line 19; page 19, line 17 to page 20 line 13; figures 7-9 *</p> | 1-3,6,9,10                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PX                                                                                                    | <p>&amp; GB - A - 2 052 845</p> <p>-----</p>                                                                                                                          |                                  | <p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant if taken alone</p> <p>Y: particularly relevant if combined with another document of the same category</p> <p>A: technological background</p> <p>O: non-written disclosure</p> <p>P: intermediate document</p> <p>T: theory or principle underlying the invention</p> <p>E: earlier patent document, but published on, or after the filing date</p> <p>D: document cited in the application</p> <p>L: document cited for other reasons</p> |
| <p><input checked="" type="checkbox"/> The present search report has been drawn up for all claims</p> |                                                                                                                                                                       |                                  | <p>&amp;: member of the same patent family, corresponding document</p>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Place of search                                                                                       |                                                                                                                                                                       | Date of completion of the search | Examiner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| The Hague                                                                                             |                                                                                                                                                                       | 05-03-1982                       | DAGLISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |