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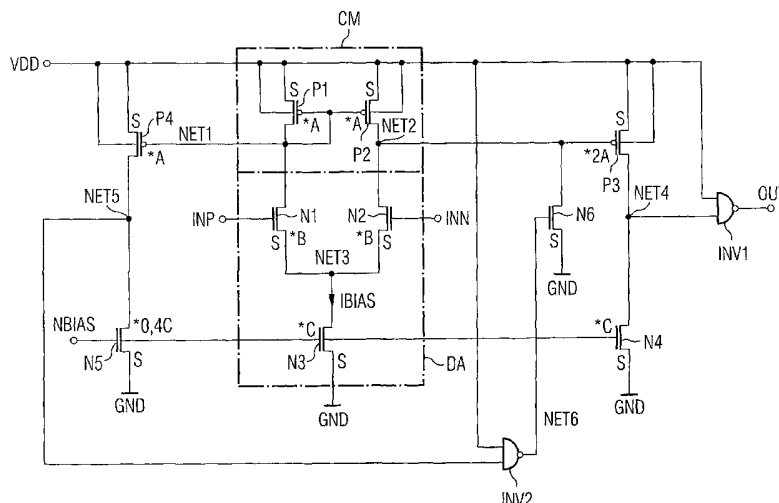
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(54) Title: COMPARATOR AND METHOD FOR OPERATING THE COMPARATOR



(57) Abstract: The comparator according to the invention comprises a difference amplifier (DA) connected to a current mirror (CM) and a series connection of a first transistor (P4) and a second transistor (N5) connected between a first and a second operating potential (VDD, GND), wherein the control input of the first transistor (P4) is connected to the difference amplifier (DA) and the current mirror (CM). The comparator further comprises an inverter (INV2) connected to the first operating potential (VDD) and to the outputs of the first and second transistor (P4, N5). A third transistor (N6) is connected between the second operating potential (GND) and the output (NET2) of the difference amplifier (DA) wherein the control input of the third transistor (N6) is connected to the output of the inverter (INV2).

WO 2004/068711 A3



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# INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H03K5/24				
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 4 438 349 A (SHOJI MASASHI) 20 March 1984 (1984-03-20) column 6, line 37 - column 7, line 21; figures 3,5	1-3,5-7		
X	US 4 394 587 A (MCKENZIE JAMES A ET AL) 19 July 1983 (1983-07-19) column 2, line 10 - column 4, line 40; figure 1	1,4-7		
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<input type="checkbox"/> Further documents are listed in the continuation of box C.				
<input checked="" type="checkbox"/> Patent family members are listed in annex.				
° Special categories of cited documents :				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;">                     *A* document defining the general state of the art which is not considered to be of particular relevance                      *E* earlier document but published on or after the international filing date                      *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)                      *O* document referring to an oral disclosure, use, exhibition or other means                      *P* document published prior to the international filing date but later than the priority date claimed                 </td> <td style="width: 50%; vertical-align: top; padding: 5px;">                     *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention                      *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone                      *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.                      *&amp;* document member of the same patent family                 </td> </tr> </table>			*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
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