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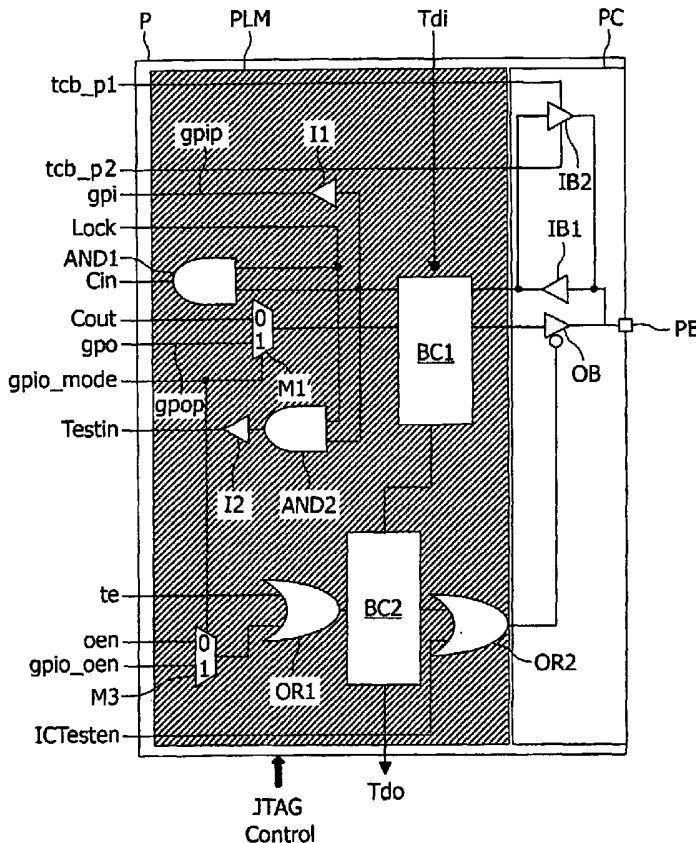
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[Continued on next page]

(54) Title: INTEGRATED CIRCUIT WITH INPUT AND/OR OUTPUT BOLTON PADS WITH INTEGRATED LOGIC.



(57) Abstract: An input and/or output pad (P) is dedicated to an integrated circuit comprising a core with input and/or output pins. This pad (P) comprises a pad cell (PC) comprising a pad block (PB) connected to an input buffer (IB1, IB2) and/or an output buffer (OB) and arranged to be connected to one of the core input and/or output pins. The pad (P) also comprises a pad logic module (PLM) comprising a first boundary scan cell (BC1) and/or a second boundary scan cell (BC2), connected to the pad block (PB) through the input buffer (IB1, IB2) and/or output buffer (OB) and arranged to feed input signals to and/or deliver output signals from the pad block (PB), and control means connected to the first (BC1) and/or second (BC2) boundary scan cell(s) and adapted to receive control signals for controlling access to the first and/or second boundary scan cell(s) and feeding the first boundary scan cell (BC1) with the input signals and/or outputting the output signals delivered by the first boundary scan cell (BC 1).

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A. CLASSIFICATION OF SUBJECT MATTER G01R31/3185				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G01R				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 6 539 511 B1 (HASHIZUME TAKESHI) 25 March 2003 (2003-03-25) column 3, line 15 - column 10, line 54; figures 1A,1B	1-15		
A	----- US 4 875 003 A (BURKE ET AL) 17 October 1989 (1989-10-17) column 3, line 4 - column 13, line 22; figure 2	1-15		
A	----- US 6 266 801 B1 (JIN LONDON) 24 July 2001 (2001-07-24) column 3, line 5 - column 4, line 27	1-15		
<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%; border: none; vertical-align: top;"> *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%; border: none; vertical-align: top;"> *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 </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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