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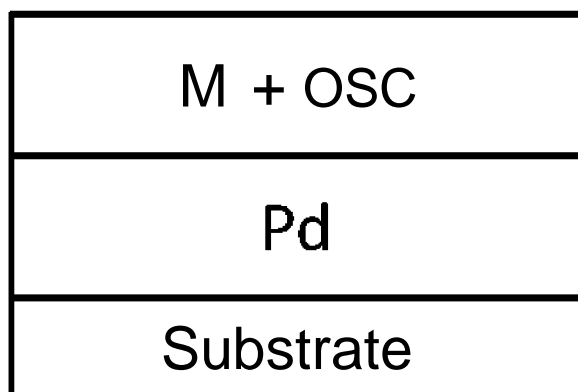
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(54) **Title:** OXYGEN STORAGE CATALYST WITH DECREASED CERIA REDUCTION TEMPERATURE



**FIG. 2B**



(57) **Abstract:** Catalysts, systems and methods for abating emissions in an exhaust stream are provided. Systems comprising a transition metal oxide stabilized oxygen storage catalyst are described. The emissions treatment system is advantageously used for the treatment of exhaust streams from lean burn engines including diesel engines and lean burn gasoline engines.



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<b>B. FIELDS SEARCHED</b>		
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: oxygen storage, ceria, zirconia, rare earth metal, transition metal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005-0227867 A1 (SHAU-LIN FRANKLIN CHEN et al.) 13 October 2005 See the abstract and claim 9	1-15
A	US 2009-0041644 A1 (KNUT WASSERMANN) 12 February 2009 See the abstract and claim 5	1-15
A	US 5057483 A1 (CHUNG-ZONG WAN) 15 October 1991 See the abstract	1-15
A	US 2009-0022641 A1 (SHAU-LIN FRANKLIN CHEN et al.) 22 January 2009 See the abstract and claim 1	1-15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent 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 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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