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22 July 2010

(54) Title: PROCESS FOR PREPARING CYCLIC DIAMINES

(57) Abstract: The present invention relates to a process for preparing a cyclic diamine, comprising the reaction of at least one cyclic alkene with a gas mixture (G) comprising dinitrogen monoxide to give at least one cyclic ketone and the subsequent conversion of the at least one cyclic ketone to a cyclic diamine. The invention also relates to the use of a cyclic diamine with primary and secondary amine functions thus obtained to prepare polyamides and polyurethanes.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. C07C209/16 C07C209/26 C07C209/48 C07C253/30 C07C211/36
C07C255/46

ADD.

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)

C07C

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, BEILSTEIN Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 1 537 011 A (RHONE POULENC SA) 23 August 1968 (1968-08-23) cited in the application examples	1-15
A	DE 42 10 311 A1 (DEGUSSA [DE]) 7 October 1993 (1993-10-07) examples	1-15
A	GB 649 680 A (GERARD DUNSTAN BUCKLEY; ALAN PICKLES DRIVER; FRANCIS STEPHEN BRIDSON J) 31 January 1951 (1951-01-31) example 12	1-15
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	M. WINKLER ET AL: "Nitrilases Catalyze Key Step to Conformationally Constrained GABA Analogous gamma-Amino Acids in High Optical Purity" JOURNAL OF ORGANIC CHEMISTRY, no. 72, 23 August 2007 (2007-08-23), pages 7423-7426, XP002581350 see scheme 1, step (b); page 7425 -----	6
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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DE 4210311	A1	07-10-1993	NONE	
GB 649680	A	31-01-1951	NONE	
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