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(54) Title: A PROCESS FOR THE MANUFACTURE OF DIETHYLENETRIAMINE AND HIGHER POLYETHYLENEDIAMINES

(57) Abstract: The invention relates to a process for the manufacture of diethylenetriamine and higher polyethylenepolyamines by a transamination of ethylenediamine. The transamination is performed at a temperature from 135°C to 180°C at a pressure from 5 Mpa to 40 Mpa in the presence of hydrogen and a particulate catalysts containing 26 to 65% by weight of nickel on an oxide carrier. A high conversion degree of ethylenediamine and a high selectivity to form acyclic polyethylenepolyamines, such as diethylenetriamine are obtained by the process. The formation of cyclic amine compounds, e.g. piperazine, is low.



WO 03/010125 A1