Title (en)
AMMONIA OXIDATION PROCESS

Title (de)
VERFAHREN ZUR OXIDATION VON AMMONIAK

Title (fr)
PROCEDE D'OXYDATION DE L'AMMONIAC

Publication
EP 1633677 A2 20060315 (EN)

Application
EP 04729673 A 20040427

Priority
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Abstract (en)

[origin: WO2004096703A2] A process for the oxidation of ammonia, including the Andrussow process is described, wherein a mixture comprising air and ammonia is contacted with a precious metal ammonia oxidation catalyst and the resultant gas mixture contacted with a catalyst effective for the decomposition of nitrous oxide, characterised in that prior to contacting the gas mixture with the catalyst effective for the decomposition of nitrous oxide, the gas mixture is contacted with a guard material. The guard material protects the nitrous oxide decomposition catalyst from deposition of precious metal and/or catalyst poisoning. In a preferred embodiment the catalyst effective for the decomposition of nitrous oxide also functions as an ammonia oxidation catalyst.

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