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(54) Title: CONVERSION OF NITROGEN OXIDES IN THE PRESENCE OF A CATALYST SUPPORTED OF A MESH-LIKE STRUCTURE

(57) Abstract: A process for converting at least one nitrogen oxide, such as NO, NO₂, or N₂O which comprises converting the at least one nitrogen oxide in the presence of a catalyst supported on a metal mesh-like structure. The mesh-like structure is preferably fibrous and has a porosity greater than about 85%. Preferred embodiments of structured packing and monoliths are disclosed each having a catalyst for converting the nitrogen oxide. In one embodiment, corrugated mesh-like sheets are arranged in series with a ceramic solid monolith structure with the corrugated sheets initially receiving the fluid with the at least one nitrogen oxide to be converted and which fluid then flows into the monolith structure to complete the conversation. In other embodiments, the mesh-like structure may have different configurations including a honeycomb arrangement and may comprise metal, metal and ceramic or ceramic and may be fibrous.

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