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- (54) **PROCESSES FOR REDUCING NITROGEN OXIDES USING COPPER CHA ZEOLITE CATALYSTS**
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- (58) **Field of Classification Search** 423/212, 423/213.2, 213.5, 235, 239.1, 239.2, 177, 423/213.7
- See application file for complete search history.

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(57) **ABSTRACT**

Zeolite catalysts and systems and methods for preparing and using zeolite catalysts having the CHA crystal structure are disclosed. The catalysts can be used to remove nitrogen oxides from a gaseous medium across a broad temperature range and exhibit hydrothermal stable at high reaction temperatures. The zeolite catalysts include a zeolite carrier having a silica to alumina ratio from about 15:1 to about 256:1 and a copper to aluminum ratio from about 0.25:1 to about 1:1.

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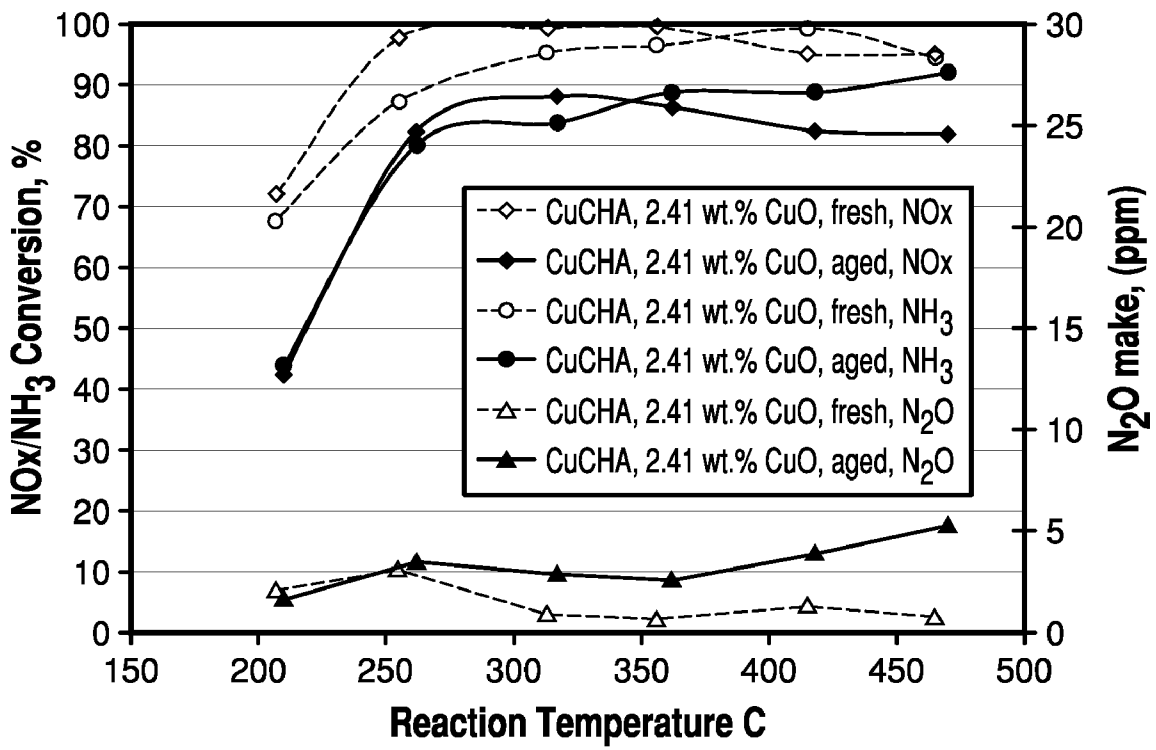


FIG. 1

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