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(58) **Field of Classification Search**

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See application file for complete search history.

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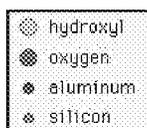
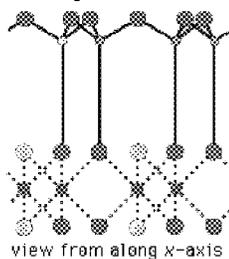
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(57) **ABSTRACT**

Disclosed is a hydrocarbon gas reforming supported catalyst, and methods for its use, that includes a catalytic material capable of catalyzing the production of a gaseous mixture comprising hydrogen and carbon monoxide from a hydrocarbon gas, and a clay support material comprising a clay mineral, wherein the catalytic material is attached to the clay support material.

31 Claims, 5 Drawing Sheets

A 1:1 layer structures



B 2:1 layer structures

