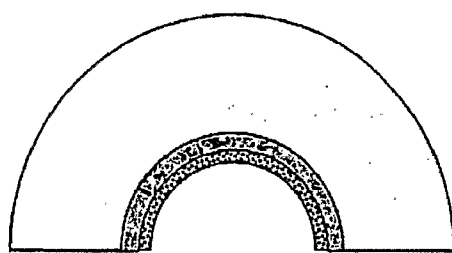
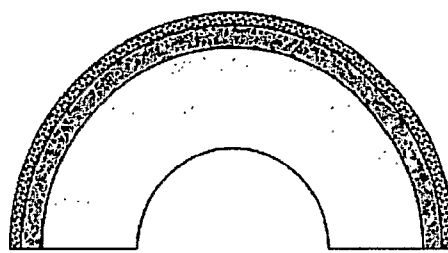


High Performance Coated Material Used For Protecting Syngas Generation Process
Equipment At Various Locations Of The Tubing Or Piping

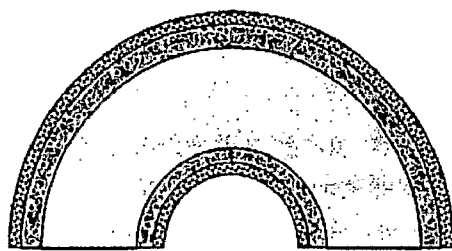
***Schematic Coated Material for
Syngas Generation Process Equipment***



Tube ID Coating



Tube OD Coating



Tube ID/OD Coating

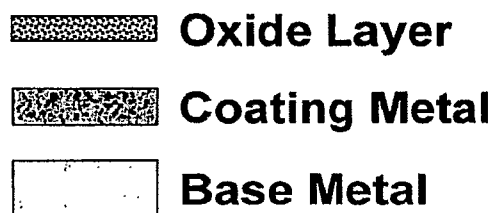


FIG. 1

Mass Gain Due To Carbon Deposition on Linde B Finished Alloys After Reaction At
650°C In 50CO-50H₂ Gas Mixture For 160 Hours

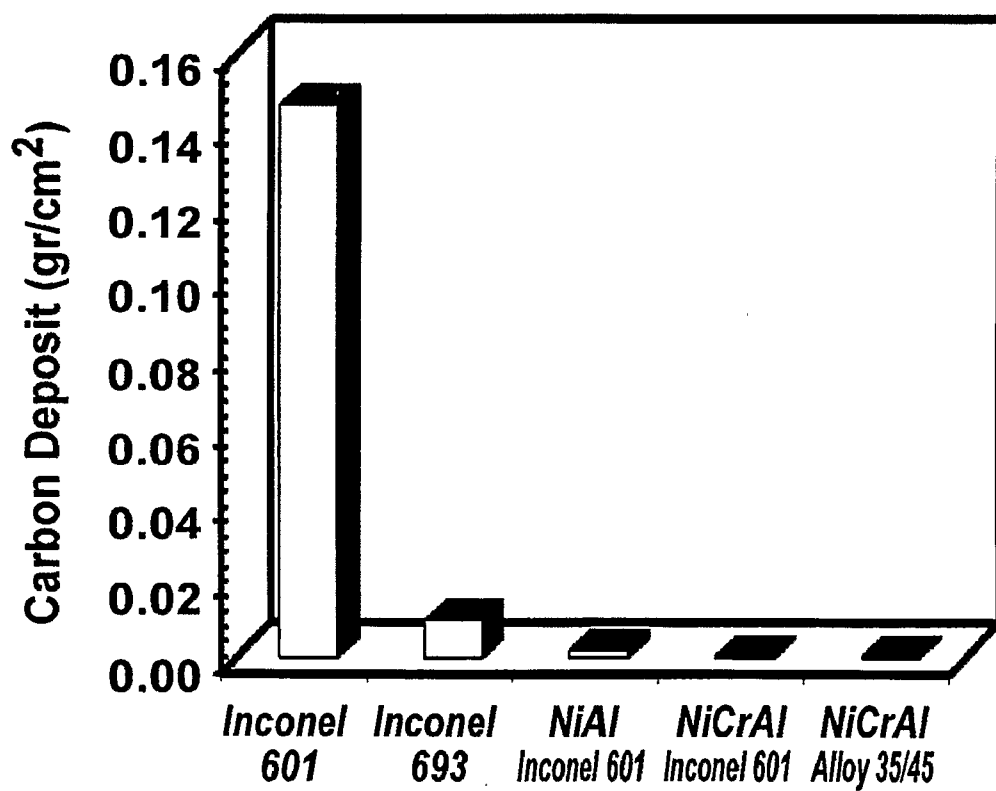


FIG. 2

SEM of the Corrosion Surface of an Uncoated Inconel 601 Alloy After Reaction At 650°C In 50CO-50H₂ Gas Mixture For 160 Hours

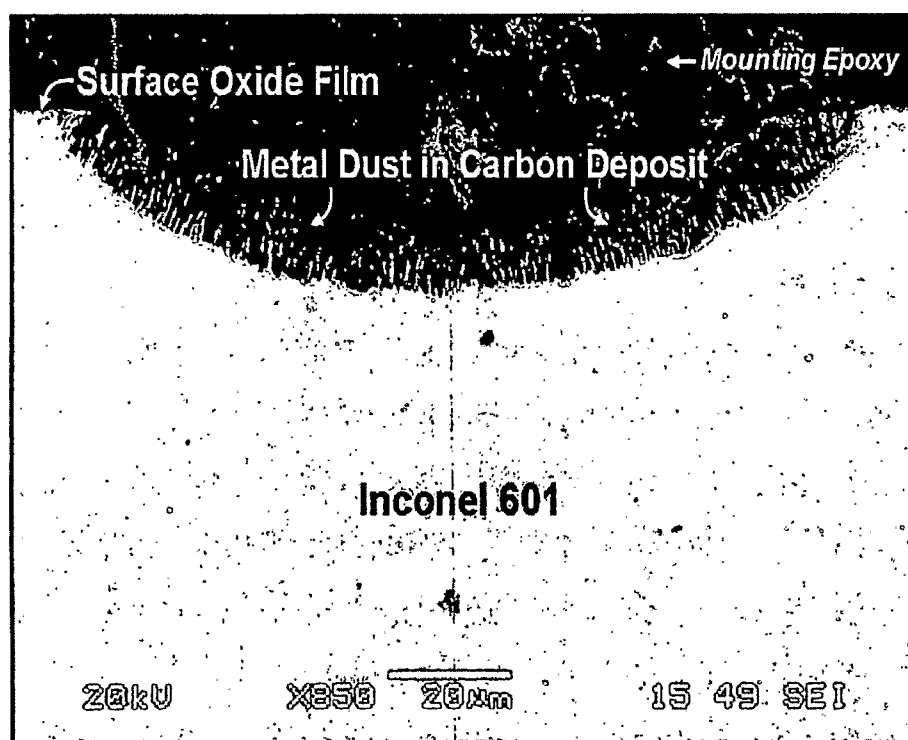


FIG. 3

(PRIOR ART)

SEM of the Corrosion Surface of an Uncoated Inconel 693 Alloy After Reaction At 650°C In 50CO-50H₂ Gas Mixture For 160 Hours

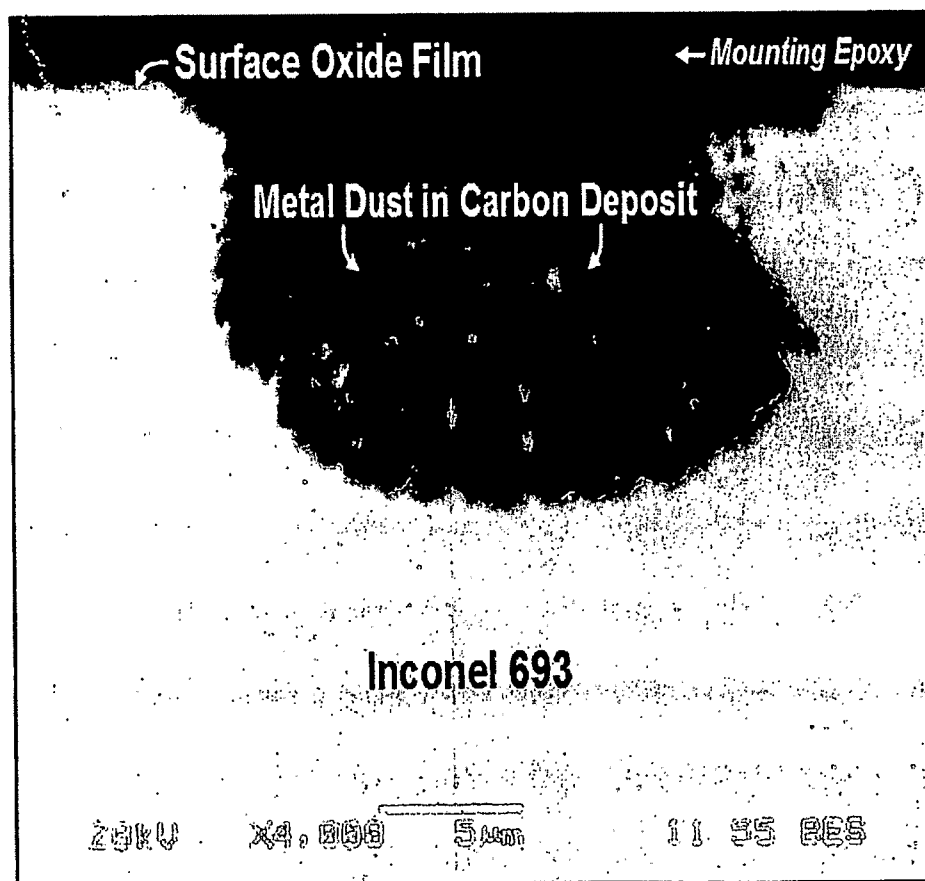


FIG. 4
(PRIOR ART)

EDXS Line Profile of a NiAl-Coated Material After Testing At 1050°C In 50CO-50H₂ Gas Mixture For 300 Hours

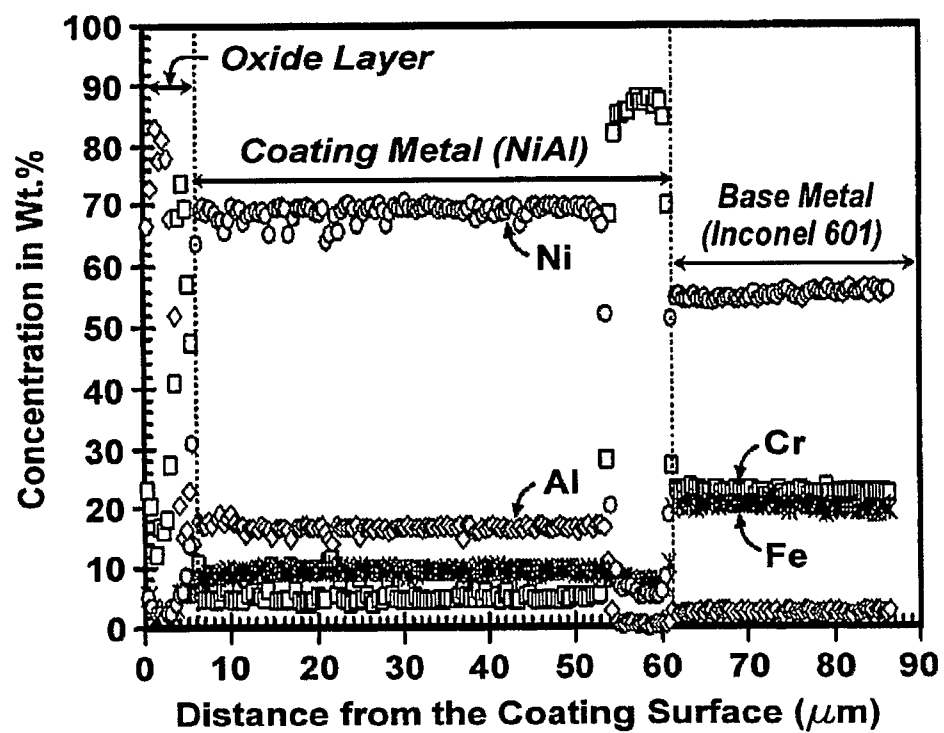


FIG. 5

Surface And Cross-Sectional SEM Image of the NiAl-Coated Inconel 601 Material
After Testing At 1050°C In 50CO-50H₂ Gas Mixture For 300 Hours

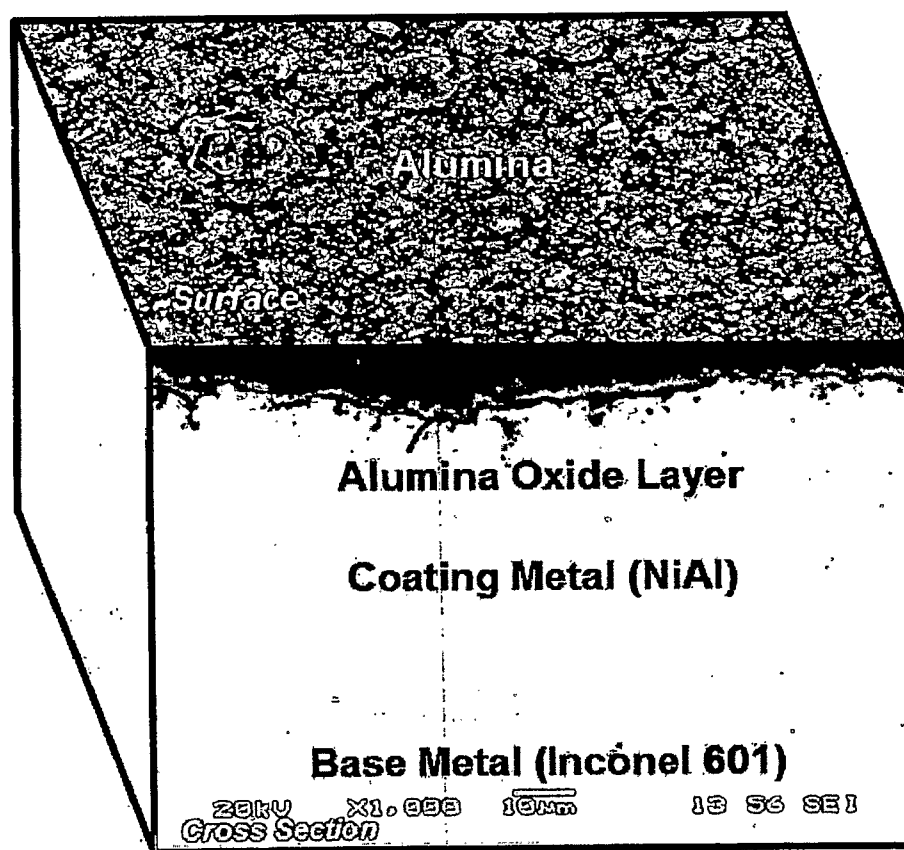


FIG. 6

EDXS Line Profile of a NiCrAl-Coated Inconel 601 Material Near the Coated Surface
Before Testing at 1050°C In 50CO-50H₂ Gas Mixture For 300 Hours

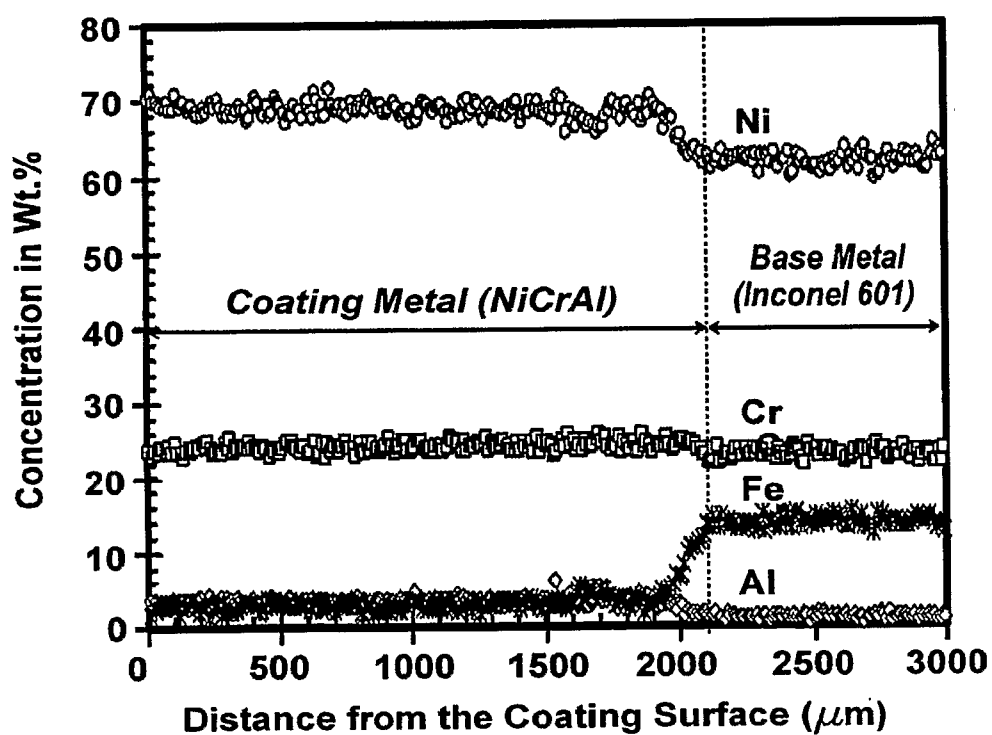


FIG. 7

Surface and Cross-Sectional Image of the NiCrAl-Coated Inconel 601 Material Near
The Coated Surface After Testing At 1050°C In 50CO-50H₂ Gas Mixture For 300
Hours

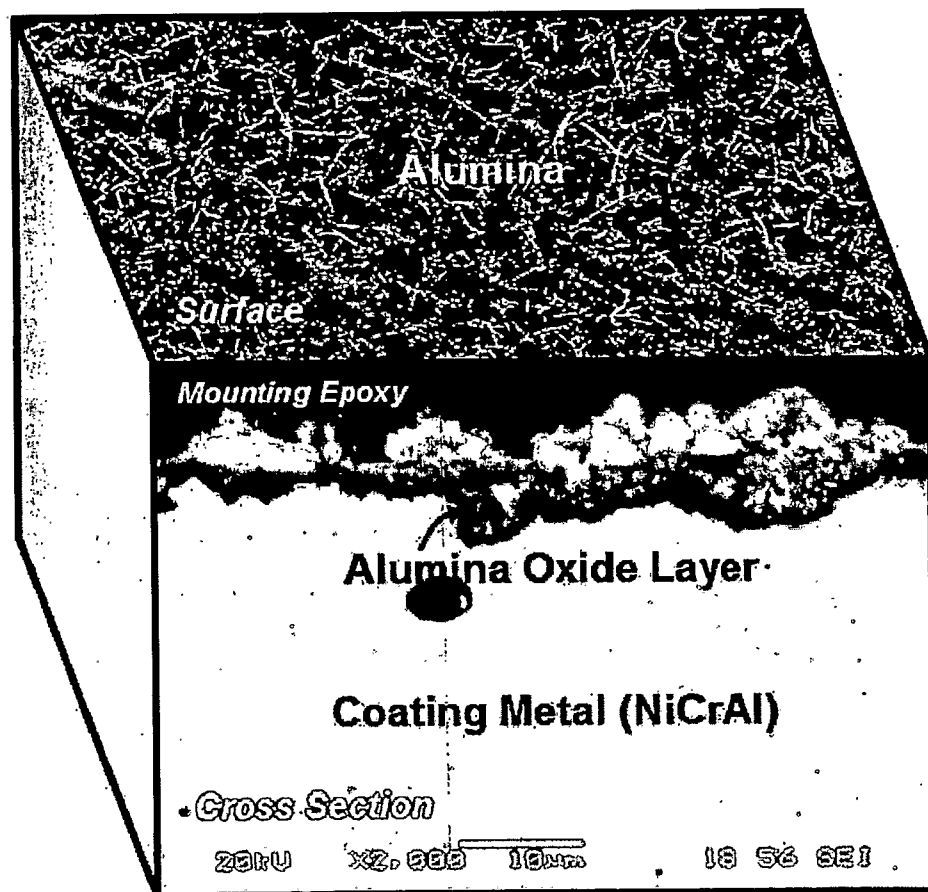


FIG. 8

EDXS Line Profile of a NiCrAl coated 35/45 Alloy Near the Coated Surface Before Testing At 1050°C In 50CO-50H₂ Gas Mixture For 300 Hours

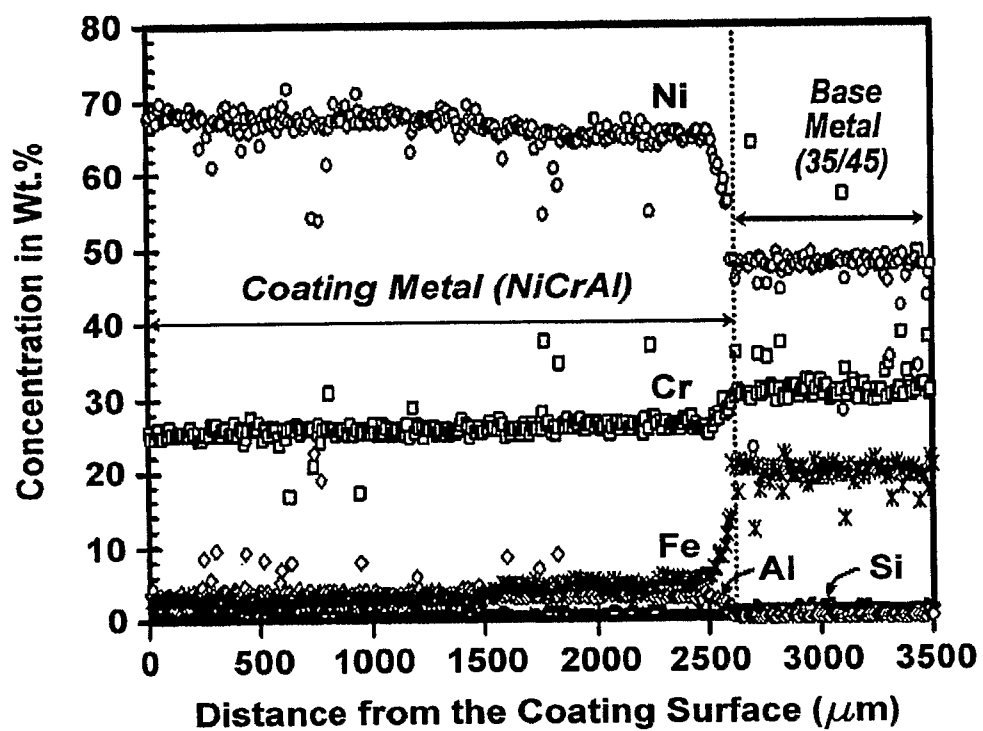


FIG. 9

Surface And Cross-Sectional Image Of The NiCrAl-Coated 35/45 Alloy Near The Coated Surface After Testing At 1050°C In 50CO-50H₂ Gas Mixture For 300 Hours

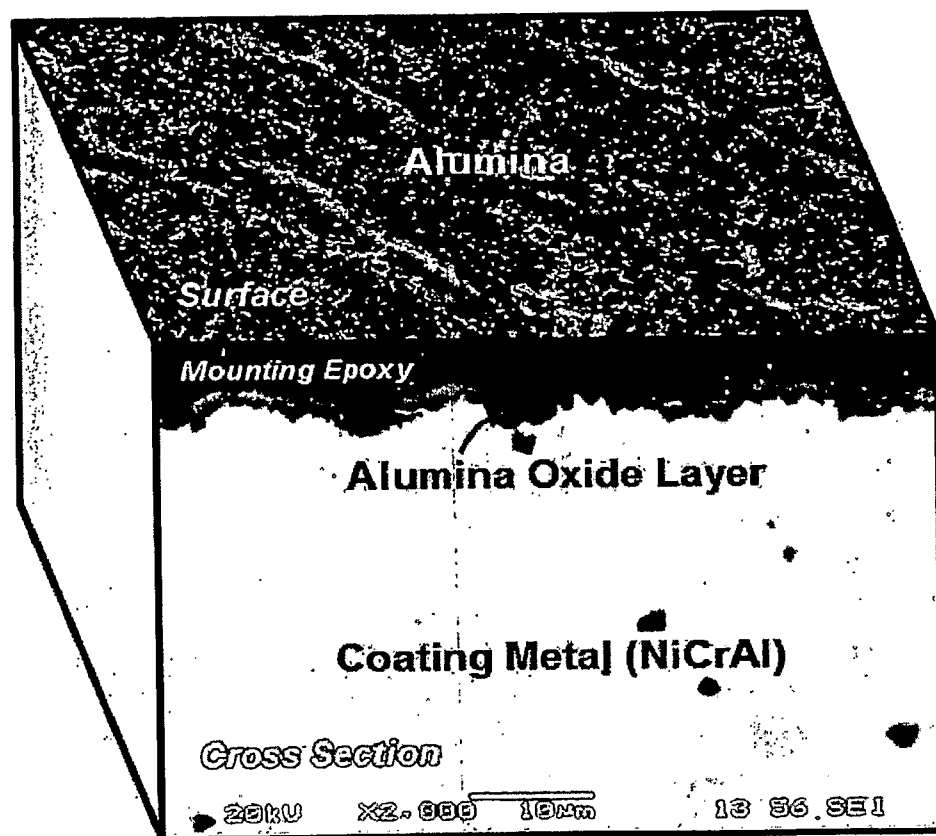


FIG. 10

Surface And Cross-Sectional SEM Image of the NiCrAlY-Coated Inconel 601 Material
After Testing At 650°C In 50CO-50H₂ Gas Mixture For 160 Hours

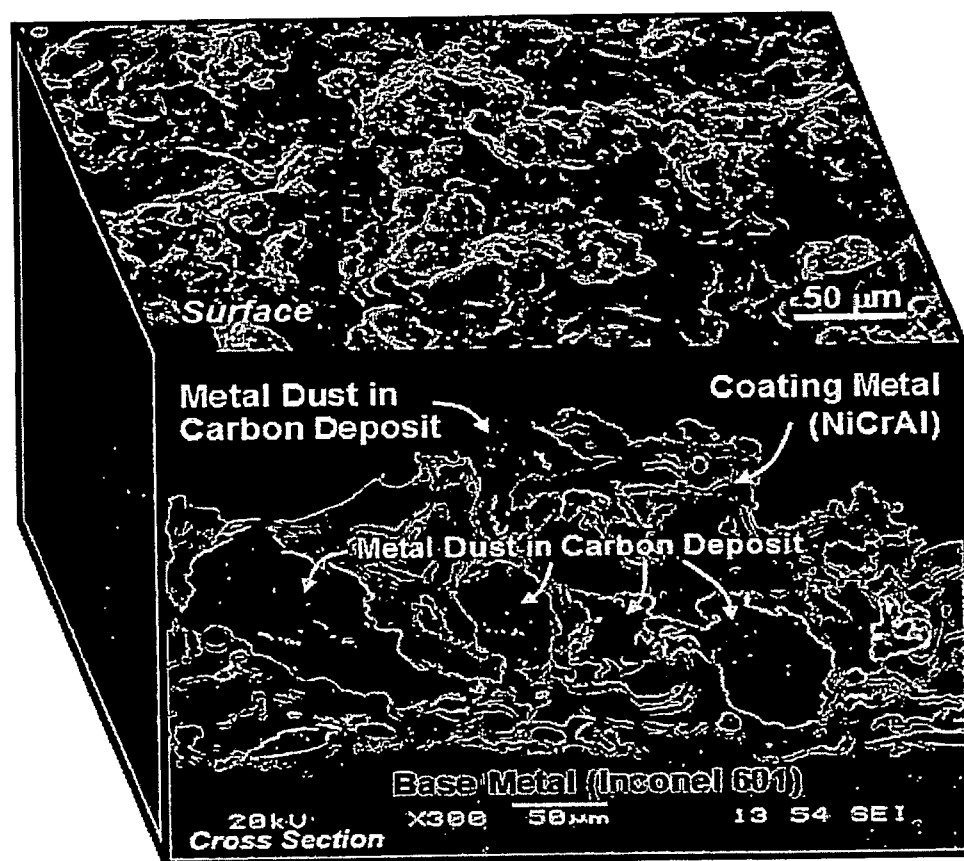


FIG. 11
(PRIOR ART)