

ABSTRACT OF THE DISCLOSURE

A method is provided for forming a component used in hot waste gas exhaust systems, such as for automotive catalytic converters, including selecting an alloyed steel sheet, such as stainless steel, forming the component, coating with aluminum by thermally decomposing a gaseous mixture comprising an aluminum-bearing compound, such as triethyl aluminum and trimethyl aluminum, and a carrier gas, such as argon, nitrogen, and helium, then heating the aluminum of the coating to corrosively protect the exhaust component by either oxidizing the aluminum to form an alumina layer, or diffusing aluminum into the steel, or both.

This Sheet Has Been Replaced

