

Magnesium Rich Coatings and Coating Systems (RFT-118, RFT-139)

Invention Summary

This technology package consists of two different disclosures. One is a protective primer coating for two different aluminum alloys used in the construction of aircraft. The second is the application and optimization of that coating to structures of different alloys such as aircraft skin, rivets and struts. This technology protects aluminum from corrosion while eliminating toxic and carcinogenic materials such as chromium, that are currently used for corrosion protection.

Patents

US Patent No. 8,568,832 "Method of Applying a Magnesium-Containing Powder to the Surface of an Aluminum or Aluminum Alloy Substrate"

US Divisional Patent No. 9,103,040 "Method of Applying a Magnesium-Containing Powder to the Surface of an Aluminum or Aluminum Alloy Substrate"

Japanese Patent No. 4,733,643 "Magnesium Rich Coatings and Coating Systems"

Status

Licensed in "Aerospace Applications" Field of Use

Licensed in "Aluminum substrates for fresh or salt water marine vessels, land vehicles and structures" Field of Use in the US, Canada, Europe, China, Japan and Brazil territories

Available in All Other Fields of Use and territories

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NDSURF Tech Key

RFT, 118, 139, RFT118, RFT139

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