

ABSTRACT

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PROCESS AND COMPOSITION FOR DESMUTTING SURFACES OF ALUMINIUM AND ITS ALLOYS:

A highly effective deoxidizer/desmutter for aluminum surfaces, particularly those of high silicon aluminum alloys, is an aqueous solution containing an oxidizing inorganic acid, phosphoric and sulfuric acids, simple and complex fluoride ions, an organic carboxylic acid having from 1 - 10 carbon atoms, and manganese in its +4 oxidation state.

Abstract of the Disclosure

5 A highly effective deoxidizer/desmutter for aluminum surfaces, particularly those of high silicon aluminum alloys, is an aqueous solution containing an oxidizing inorganic acid, phosphoric and sulfuric acids, simple and complex fluoride ions, an organic carboxylic acid having from 1 - 10 carbon atoms, and manganese in its +4 oxidation state.

5 rinsed with water, and then dipped into a container of the
composition according to the invention made as described
above. The composition was maintained at a temperature
between 18 and 21 ° C, and the workpieces were maintained
in contact with the composition for periods of time ranging
from 15 - 200 seconds. In each case, an apparently clean,
white matte surface that was free from any visual evidence
of pitting or intergranular attack was produced on the
workpieces. The surfaces were well suited for conventional
10 organic coatings.

What is claimed is:

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