

# A METHOD FOR PARTIALLY STRIPPING A COATING FROM THE SURFACE OF A SUBSTRATE, AND RELATED ARTICLES AND COMPOSITIONS

## ABSTRACT

An electrochemical process for selectively stripping at least one coating from the surface of a substrate is disclosed. The substrate (6) (often a turbine engine component) is immersed in a composition (3) through which an electrical current flows. The composition (3) includes a halide salt, such as sodium chloride, ammonium chloride, and potassium chloride. In preferred embodiments, the electrical current is direct current (dc). The process is especially useful for selectively removing portions of diffusion aluminide coatings. For example, the additive layer (74) can efficiently be removed, without substantially affecting the underlying diffusion layer (72) or substrate (70). Related stripping compositions and apparatuses are also described.

Fig. 1