Title (en)

PROCESS AND DEVICE FOR THE LOCAL REMOVAL OF AT LEAST ONE METALLIC LAYER FROM A COMPONENT MADE OF AN ALLOY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR LOKALEN ENTFERNUNG VON MINDESTENS EINER METALISCHEN SCHICHT VON EINER AUS EINER LEGIERUNG GEFERTIGTEN KOMPONENTE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LE RETRAIT LOCAL D'AU MOINS UNE COUCHE MÉTALLIQUE D'UN COMPOSANT COMPOSÉ D'UN ALLIAGE

Publication

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Application

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Abstract (en)

[origin: WO2011030201A1] The invention relates to a process for the local removal of at least one metallic layer (12) from a component (14) made of an alloy, in particular a component (14) for an aircraft engine, in which at least the following steps are conducted: a) Coupling the component (14) to an electrode (18), b) Arranging at least one counter electrode (20) at a distance from the layer to be removed (12), c) Arranging an electrolyte feed channel (22) in the region of the counter electrode (20) and at a distance from the layer to be removed (12), d) Generating an electrolyte fluid current in a gap (S) between the counter electrode (20) and the component (14) by introducing electrolyte fluid (24) into the gap (S) through the electrolyte feed channel (22), and e) Applying an electrical voltage between the electrode (18) and the counter electrode (20), wherein a level of the voltage is adjusted such that the resulting current is sufficient for the local removal of the layer (12). The invention also relates to a device (10) for the local removal of at least one metallic layer (12) from a component (14) made of an alloy, in particular a component (14) for an aircraft engine.

IPC 8 full level

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