

Title (en)
MANUFACTURING METHOD OF A POLISHED BLADED ROTOR USING ROBOTIC POLISHING DEVICE

Title (de)
HERSTELLUNGSVERFAHREN EINES POLIERTER BESCHAUFELTER ROTORS UNTER VERWENDUNG EINER ROBOTISCHER POLIERVORRICHTUNG

Title (fr)
PROCÉDÉ DE FABRICATION D'UN ROTOR À AUBES POLIES UTILISANT UN DISPOSITIF DE POLISSAGE ROBOTIQUE

Publication
EP 4393642 A2 20240703 (EN)

Application
EP 23220614 A 20231228

Priority
US 202263435476 P 20221227

Abstract (en)
A manufacturing method includes controlling a robotic polishing device (46), at a controller (48), to polish a plurality of first zones (88A; 90A) of a bladed rotor (20) for an aircraft engine based on a first operating parameter associated with the robotic polishing device (46). An exterior (56) of the bladed rotor (20) includes the first zones (88A; 90A) and a plurality of second zones (88B-F; 90B-F). The first zones (88A; 90A) are distributed circumferentially about an axis (22) of the bladed rotor (20) in a first array. The second zones (88B-F; 90B-F) are distributed circumferentially about the axis (22) of the bladed rotor (20) in a second array. The method further includes controlling the robotic polishing device (46), at a controller (48), to polish the second zones (88B-F; 90B-F) using the robotic polishing device (46) based on a second operating parameter. The second operating parameter for the robotic polishing device (56) is different than the first operating parameter.

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