

SYSTEM AND METHOD FOR CLEANING A GAS TURBINE ENGINE AND RELATED WASH STAND

ABSTRACT OF THE DISCLOSURE

A system for cleaning a gas turbine engine may generally include a wash stand having a base frame and a plurality of fluid injection nozzles configured to be supported by the base frame relative to the gas turbine engine. The nozzles may be configured to inject a cleaning fluid through an inlet of the fan casing of the engine as the fan blades are being rotated in a rotational direction such that the cleaning fluid is directed past the rotating fan blades and into a compressor inlet of the engine. Additionally, each nozzle may be oriented at a positive tangential angle defined relative to the rotational direction of the plurality of fan blades. The system may also include a fluid source in flow communication with the wash stand for supplying the cleaning fluid to the plurality of fluid injection nozzles.

[Fig. 3]