

Title (en)
SYSTEMS AND METHODS USING AN ULTRASONIC TRANSDUCER AND SCRUBBING HORN MOTION TO SEAL A PART

Title (de)
SYSTEME UND VERFAHREN MIT EINEM ULTRASCHALLWANDLER UND SCHEUERHORNBEWEGUNG ZUM ABDICHTEN EINES TEILS

Title (fr)
SYSTÈMES ET PROCÉDÉS UTILISANT UN TRANSDUCTEUR ULTRASONORE ET LE MOUVEMENT D'UN BRAS DE FROTTEMENT POUR SCELLER UNE PIÈCE

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Application
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Abstract (en)
[origin: WO2023022988A1] A system includes a first horn, a first ultrasonic transducer, a second horn, a second ultrasonic transducer, a memory, and a controller. The first horn includes a first part-interfacing surface. The second horn includes a second part-interfacing surface and is positioned relative to the first horn such that a part to be welded can be positioned between the first and second part-interface surfaces. The controller is configured to cause a first ultrasonic energy to be applied through the first horn via the first transducer to cause the first part-interfacing surface to vibrate, cause the first horn to move in a first direction at a first time, cause a second ultrasonic energy to be applied through the second horn via the second transducer to cause the second part-interfacing surface to vibrate, and cause the second horn to move in a second direction at the first time.

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