

Title (en)

SOUND WAVE MIXING DEVICE BASED ON THREE-FREEDOM-DEGREE RESONANCE SYSTEM

Title (de)

SCHALLWELLENMISCHVORRICHTUNG BASIEREND AUF EINEM RESONANZSYSTEM MIT DREI FREIHEITSGRADEN

Title (fr)

DISPOSITIF DE MÉLANGE D'ONDES SONORES FAISANT APPEL À UN SYSTÈME DE RÉSONANCE À TROIS DEGRÉS DE LIBERTÉ

Publication

EP 3459619 A1 20190327 (EN)

Application

EP 17798628 A 20170428

Priority

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- CN 2017082590 W 20170428

Abstract (en)

A three-degree-of-freedom resonance system-based sonic mixing device includes a machine frame (1), a vibration excitation unit (2), a reaction unit (3) and a loading unit (4). The reaction unit (3) is positioned in the middle of the machine frame (1), and is connected with an upper plate (103) and lower plate (101) of the machine frame (1) through second springs (301). The vibration excitation unit (2) is positioned in the middle of the reaction unit (3), and is connected with an upper plate (302) and lower plate (304) of the reaction unit (3) through first springs (201). The loading unit (4) is positioned between the machine frame (1) and the reaction unit (3), and is connected with the machine frame (1) and the reaction unit (3) through third springs (403) and fourth springs (406), respectively. A mixing container (401) may be fixed on the loading unit (4) or on the reaction unit (3), or two mixing containers (401) are fixed on both the loading unit (4) and the reaction unit (3).

IPC 8 full level

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CPC (source: CN EP)

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