

Title (en)

DEVICE AND METHOD FOR PRODUCING PRESSURE WAVES OF HIGH AMPLITUDE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ERZEUGUNG VON DRUCKWELLEN HOHER AMPLITUDE

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LA GÉNÉRATION D'ONDES DE PRESSION DE HAUTE AMPLITUDE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2019185736A1] A device for producing pressure waves of high amplitude, in particular for cleaning boilers, has a pressure-tight vessel (21, 40) comprising a burning chamber (121) introduced therein, which can be filled via feed lines with a flowable material that can be burned. The pressure-tight vessel has a discharge opening (306) for the directed discharge of gas pressure produced by ignition of the burnable material. A piston (70) closes the discharge opening, can release it for directed discharge and can be returned to the starting position by a spring means. The seat of the piston (70), with respect to its longitudinal direction (305), has a piston surface (302) which is inclined obliquely with respect to the discharge opening (306) and is arranged opposite a housing surface which is inclined likewise obliquely with respect to the discharge opening (306), wherein the housing surface (303) opposite the piston surface (302) opens with an angle (304) oriented towards the discharge opening (306) proceeding from a closure line (65) oriented perpendicular to the piston direction (90).

IPC 8 full level

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