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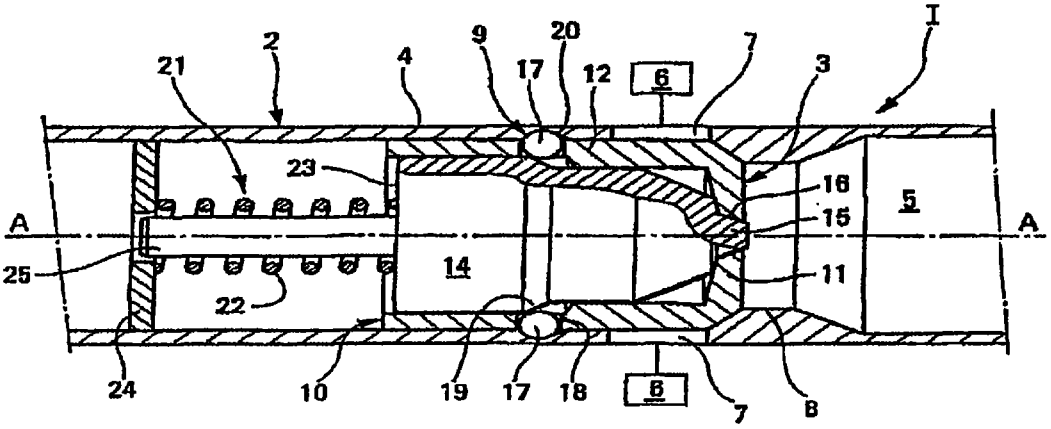
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(54) Title: PULSED DETONATION ENGINE

(54) Titre : MOTEUR A DETONATIONS PULSEES



(57) Abstract: The invention relates to a pulsed detonation engine. According to the invention, the transversal base (3) of the flame tube (2) is mounted in such a way that it can move in relation to said tube in order to be able to assume two boundary positions, a first position corresponding to the detonation phase of the combustible charge in the combustion chamber (5) of the tube, and a second position corresponding to the phase wherein the combustible charge is supplied to said chamber. At least one supply opening (7) for the combustible charge is provided in the lateral wall (4) of the tube, said opening being closed and separated from the combustion chamber (5) when the mobile base (3) assumes the first position thereof, and communicating with the chamber (5) in a fluidic manner when the mobile base (3) assumes the second position thereof.

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(57) **Abrégé :** Selon l'invention, le fond transversal (3) du tube de flamme (2) est monté mobile par rapport à celui-ci pour pouvoir occuper deux positions limites, une première position correspondant à la phase de détonation de la charge combustible dans la chambre de combustion (5) du tube et une seconde position correspondant à la phase d'alimentation de la charge combustible dans ladite chambre, et, dans la paroi latérale (4) du tube, au moins une ouverture d'alimentation (7) de la charge combustible est prévue, qui est obturée et séparée de la chambre de combustion (5) par le fond mobile (3), quand ce dernier occupe sa première position, et qui est en communication fluidique avec la chambre (5), quand le fond mobile (3) occupe sa seconde position