

Title (en)

Canon for obtaining a coherent water jet.

Title (de)

Düse, um einen kohärenten Wasserstrahl zu erhalten.

Title (fr)

Canon pour obtention d'un jet de liquide cohérent à grande vitesse.

Publication

EP 0198728 A1 19861022 (FR)

Application

EP 86400421 A 19860227

Priority

FR 8503206 A 19850305

Abstract (en)

1. Cannon for obtaining a coherent liquid jet at high speed comprising a metal enclosure (1) of general elongated cylindrical shape, having formed in it an axial channel (2), closed at one end by an end-piece (3) adjacent to a chamber (8) filled with a reserve of explosive powder, the said axial channel (2) being closed at its other end by a cap (7) which can be broken, and containing the liquid to be projected, characterized in that the enclosure (1) is provided, at its end opposite to that of the end-piece, with a nozzle (4) having formed in it a converging axial channel (6) separated from the channel (2) by the cap (7) and empty of liquid at rest and in that the axial channel (2) filled with water at rest encloses a piston (9) adjacent to the chamber (8) and movable inside this channel under the action of the explosion of the explosive charge, the lengths of the water column contained at rest inside the axial channel (2) and of the converging axial channel (6) empty at rest being substantially equal.

Abstract (fr)

Le canon comporte une enceinte métallique (1) de forme générale cylindrique allongée, creusée d'un canal axial (2), fermée à une extrémité par un embout (3) adjacent à une chambre (8) remplie d'une réserve de poudre explosive, ledit canal axial (2) étant fermé son autre extrémité par un opercule déchirable (7), et contenant le liquide à projeter, caractérisé en ce que l'enceinte (1) est munie, à son extrémité opposée à celle de l'embout, d'une buse (4) creusée d'un canal axial convergent (6) et en ce que le canal axial (2) renferme un piston (9) adjacent à la chambre (8) et mobile dans ce canal sous l'action de l'explosion de la charge explosive, les longueurs de la colonne d'eau contenue dans le canal axial (2) et du convergent (6) étant sensiblement égales.

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Citation (search report)

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