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Abstract (en)
[origin: US5131840A] PCT No. PCT/EP88/00953 Sec. 371 Date Apr. 26, 1990 Sec. 102(e) Date Apr. 26, 1990 PCT Filed Oct. 25, 1988 PCT Pub. No. WO89/04439 PCT Pub. Date May 18, 1989. A burner device for combustion of a combustible mixture of two flowable components consists of a chamber housing, first feed means for the first component, second feed means for the second component and an outlet opening for the combustion gases. Serving as feed means for the first component is an injector pipe, which has a rearward axial bore at its end oriented towards the outlet opening, a narrower forward axial bore at its other end, a constriction between the two bores. The feed means for the second component consists of at least one inclined channel which extends radially and obliquely relative to the injector axis with the apex of the angle alpha pointing in direction of the rearward axial bore and extending from the interior of the chamber housing into the constriction, or shortly before the constriction, along sides of the forward axial bore so that a part of the second component entering into the chamber housing flows through the inclined channels to the constriction, intermixes there with the first component entering through the forward axial bore, combusts in the rearward axial bore and flows therefrom into the chamber housing.

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