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(54) **Fuel nozzles and centerbodies therefor**

(57) A tangential air entry fuel nozzle (10) has a combustor inlet port (20) to permit air and fuel to exit into a combustor (56). The port includes a convergent surface (116), a combustor surface, and a cylindrical

surface (118) extending therebetween. The convergent surface extends a first distance along the longitudinal axis (26) of the nozzle, the cylindrical surface extends a second distance along the axis, and the second distance is at least 30% of the first distance.

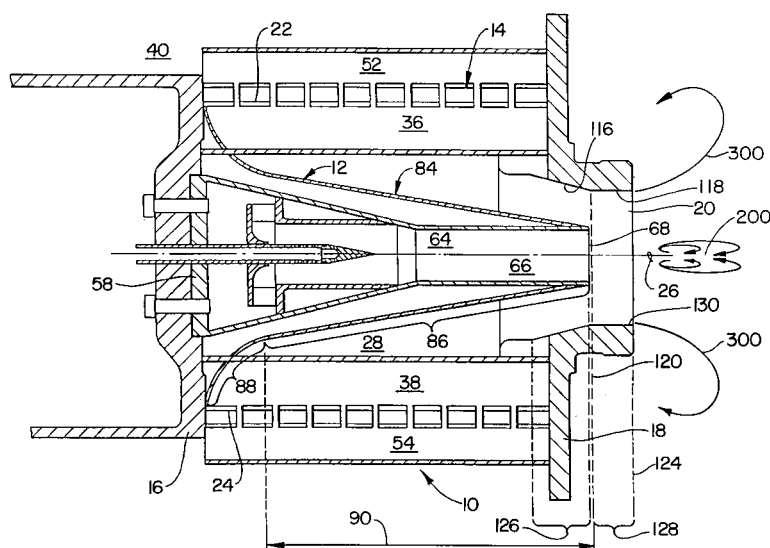


FIG. 3



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 97 31 0464

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	WO 96 19699 A (UNITED TECHNOLOGIES CORP) 27 June 1996 * page 2, line 31 - page 3, line 20 * * page 5, line 34 - page 6, line 20 * * page 7, line 6 - page 8, line 3 * * figures 1-3 * ---	1,3,4	F23C7/00 F23D17/00
A	WO 95 23316 A (UNITED TECHNOLOGIES CORP) 31 August 1995 * the whole document * ---	1,3,4	
P,A	DE 195 45 310 A (ASEA BROWN BOVERI) 12 June 1997 * column 3, line 44 - column 4, line 44 * * column 5, line 11 - column 6, line 55 * * figures 1-4,7-11 * -----	1,3,4	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6) F23C F23D F23R
Place of search THE HAGUE		Date of completion of the search 8 April 1999	Examiner Coquau, S
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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