

Title (en)

A process for generating steam for power generation

Publication

EP 0185440 A1 19860625 (EN)

Application

EP 85306774 A 19850924

Priority

- CA 470688 A 19841220
- US 69333885 A 19850122

Abstract (en)

A method and apparatus for combustion of hydrogen to produce heat, for example to generate steam for power generation. Water is electrolysed (1) and the hydrogen (3) and a fraction of the oxygen products (4) of electrolysis are passed immediately to a first combustion zone (10) where the immediate combustion of the oxygen products and a function of the hydrogen products is effected. The products from this first combustion zone are immediately passed to a second combustion zone (11) where combustion is again effected with the remaining fraction of the oxygen products (9) of the electrolysis and the remaining hydrogen products (13) from the first combustion zone. The heat generated thereafter applied to the desired use, for example by passing the products of combustion from the second combustion zone through water to boil the water (16), the steam thereby produced being used for power generation. Apparatus to carry out this method is also described.

IPC 8 full level

F01K 25/00 (2006.01); **F22B 1/00** (2006.01)

CPC (source: EP)

F01K 25/005 (2013.01); **F22B 1/003** (2013.01)

Citation (search report)

- US 3826092 A 19740730 - COSBY T
- GB 414458 A 19340809 - RUDOLF ARNOLD ERREN
- GB 919394 A 19630227 - THOMPSON RAMO WOOLDRIDGE INC
- FR 350430 A 19060216 - PAUL DE CASTELET [FR]
- DE 655532 C 19380118 - FEDERICO MARTINOLI DR ING, et al

Cited by

DE19601031A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0185440 A1 19860625

DOCDB simple family (application)

EP 85306774 A 19850924