

Title (en)
Burner with impact element for producing turbulence

Title (de)
Brenner mit Prallkörper zur Turbulenzerzeugung

Title (fr)
Brûleur à obstacle créant une turbulence

Publication
EP 1491822 A1 20041229 (FR)

Application
EP 04077558 A 20000606

Priority
• EP 00938889 A 20000606
• FR 9907178 A 19990608

Abstract (en)
Two parallel electric circuits are supplied by a battery (1) via common control switch (2). One circuit energizes fuel valve (4) operating coil (3), other igniter circuit, which terminates in spark electrode (16), on insulated support (11) at bottom of burner (9). Series ignition circuit comprises oscillator (5), power unit (6) and step-up transformer (7), whose output (10) is connected to igniter (16). Fuel line (8) delivers fuel via control valve (4) and heat exchanger at base of which it enters, near air delivery point. Turbulence is created in fuel mixture flow by steel sphere (12) mounted near igniter. An independent claim is also included for the burner.

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F23Q 3/00; **F23D 14/74**

IPC 8 full level
F23Q 3/00 (2006.01)

CPC (source: EP)
F23Q 3/00 (2013.01); **F23N 2227/34** (2020.01)

Citation (search report)
• [X] US 3460916 A 19690812 - INOVIUS ALLAN
• [A] GB 1334832 A 19731024 - KROMSCHROEDER AG G
• [A] FR 1495884 A 19670922 - BABCOCK & WILCOX CO

Cited by
CN103672957A

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB IE IT LI LU NL PT SE

DOCDB simple family (publication)
EP 1491822 A1 20041229; AT E290191 T1 20050315; AU 5411800 A 20001228; DE 60018358 D1 20050407; DE 60018358 T2 20050922; EP 1105682 A1 20010613; EP 1105682 B1 20050302; ES 2234621 T3 20050701; FR 2794847 A1 20001215; FR 2794847 B1 20010720; PT 1105682 E 20050729; WO 0075572 A1 20001214

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