

Title (en)

Burners for solid fuels combined with liquid and/or gaseous fuels.

Title (de)

Brenner für feste Brennstoffe, kombiniert mit flüssigen und/oder gasförmigen Brennstoffen.

Title (fr)

Brûleurs de combustibles solides combinés avec des combustibles liquides et/ou gazeux.

Publication

EP 0014812 A2 19800903 (FR)

Application

EP 79430022 A 19791116

Priority

DE 2905746 A 19790215

Abstract (en)

1. Burner of solid, pulverized or finely divided fuels and of liquid and/or gaseous fuels permitting to control whilst switched on, the shape of the flame and the flowing speeds of the fuels and air, characterized in that it comprises, inside a tubular external casing (13) equipped with a refractory coating, three other co-axial tubes which define four conduits : a first central conduit (1) which contains several pipes (1a, 1b) which supply liquid and/or gaseous fuels to a device (1c) for pulverizing or injecting said fuels, a second annular conduit (2) directly surrounding the central conduit (1) and which transports clean air, a third annular conduit (3) directly surrounding the second conduit and which transports a mixture of solid fuel particles in suspension in a transporting gas and a fourth external conduit (4) which is externally defined by the said casing (13) and which transports clean air and the front ends of the second and fourth conduit comprise a regulating device (5, 6) provided with a remote-control member (7, 8) permitting to change, in service, the direction of the air coming out of the said conduits.

Abstract (fr)

La présente invention a pour objet des brûleurs de combustibles solides finement divisés combinés avec des combustibles liquides et/ou gazeux. Un brûleur selon l'invention comporte quatre tubes coaxiaux qui délimitent quatre conduits qui véhiculent, en allant de l'axe vers la périphérie, un combustible liquide et/ou gazeux (conduit 1); de l'air de combustion propre (conduit 2); un mélange de particules de combustible solide l'état finement divisé en suspension dans un gaz porteur (conduit 3) et de l'air de combustion propre (conduit 4). Une application est l'équipement de fours, notamment de fours de cimenterie.

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F23D 17/00

IPC 8 full level

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CPC (source: EP)

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Cited by

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