

Title (en)

Method and apparatus for the combustion of solid, liquid, gaseous or paste-like fuels in a fluidized-bed furnace.

Title (de)

Verfahren und Vorrichtung zur Verbrennung von festen, flüssigen, gasförmigen oder pastösen Brennstoffen in einem Wirbelschichtofen.

Title (fr)

Procédé et dispositif de combustion des combustibles solides, liquides, gazeux ou pâteux dans un four à lit fluidisé.

Publication

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Application

**EP 86890070 A 19860320**

Priority

AT 128785 A 19850430

Abstract (en)

Solid, liq. gaseous or pasty materials can be burned in a fluidised bed furnace wherein one or more vertical partitions, e.g. an open-ended cylinder immersed in the bed, produce zones, which the O<sub>2</sub>-contg. fluidising gas fluidises to different extents, producing internal circulation of solids. Most of the fuel is delivered into a zone with reduced fluidisable, i.e. where the predominant, coarse wet fuel is supported by a laterally entering feed worm while fine dry fuel and also any liq. or pasty material) is taken by a lance into the bed centre. Sub-stoichiometric O<sub>2</sub> supplies in the fuel admission area permit graduated combustion, with reduced NO<sub>x</sub> emission. The penetrates may be a heat exchanger, with fluid media circulating in internal tubing.

Abstract (de)

A clock signal having a predetermined phase relationship relative to a signal element of an analog signal that repeats at a nominally fixed frequency is generated by an oscillator having an oscillation frequency that depends on the value of a control signal. The input analog signal is sampled under control of the clock signal, and a succession of digital words representing the amplitudes of the successive samples is generated. The digital words are written into memory, and are digitally analyzed in order to determine the phase, within the cycle of the clock signal, of the signal element. The signal that represents the phase of the signal element relative to the clock signal is used as a control signal for controlling the frequency of oscillation of the oscillator.

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