

Title (en)

METHOD AND APPARATUS FOR REDUCED NOX EMISSIONS FROM COAL FURNACES

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Application

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Abstract (en)

[origin: EP0225157A2] The present invention discloses a method of, and apparatus for, reducing NO_x emissions from black coal fired updraught furnaces (20). The pulverised coal is entrapped in the "primary air" and separated into two streams, one fuel rich (13) and one fuel lean (15). These streams are introduced into the furnace (20) via a corresponding burner(s) (14,16) with the burner(s) (16) for the fuel lean stream (15) being located at an elevation above the burner(s) (14) for the fuel rich stream (13). The apparatus comprises a concentrator (3) positioned between the substantially conventional mill (1) and furnace (20) and arranged to split the primary air and entrapped fuel into the two abovementioned streams. The concentrator preferably includes a classifier (8) and takes the form of a swirl generator (5) and radially positioned outlets which make use of the action of centrifugal force on the "primary air" and entrapped coal particles to bring about the desired separation.

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Citation (search report)

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