

Title (en)  
**A BURNER**

Title (de)  
**BRENNER**

Title (fr)  
**BRÛLEUR**

Publication  
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Application  
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Abstract (en)  
[origin: WO2010122529A1] This is a description of a burner for introducing solid particulate fuel to a burning zone of a kiln such as a rotary kiln for manufacturing cement clinker or similar, said burner comprising a centrally located duct (1) for conducting solid fuel to an inlet opening (16) and at least one duct (3, 4) for conducting primary air to one or more annular nozzles (17) surrounding the inlet opening (16) of the centrally located duct (1). The particular aspect of the burner is the fact that the centrally located duct (1) for conducting solid fuel is arranged so that the direction (5) of introduction of the fuel relative to the longitudinal axis (6) of the burner and consequently the direction of introduction of the primary air may be adjusted continuously during operation of the burner. Hereby is obtained a burner with which different types of solid particulate fuels and mixtures thereof may be introduced via one and the same duct to the burning zone of a kiln so that the quantity of transport air and the cost of the burner are reduced. This is because the direction of introduction of the solid fuel relative to the longitudinal axis of the burner and consequently the direction of introduction of the primary air may be adjusted to the optimal direction for the solid fuels introduced at any time notwithstanding the type or mixing ratio of these so as to avoid burnout of the burner lining and at the same time achieving a longer introduction path for the fuel.

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CPC (source: EP US)  
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