

Title (en)
PULVERIZED SOLID FUEL BURNING APPARATUS

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Application
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Priority
US 37834782 A 19820514

Abstract (en)
[origin: WO8304085A1] A system for pulverizing and burning solid fuel, such as coal or other fossil fuel, characterized by a possible turndown ratio of up to as least one to fifteen, includes a unique pulverizer (12) capable of both impact and autogenous pulverizing, and a unique burner (14) which includes a valve firing nozzle having a firing conduct (48) with firing orifice (49) and controlled secondary air supply (16, 16a, 54, 59). A movable valve element (50), preferably in the form of double-taper-ended body, positioned downstream from the firing orifice (49) passes a turbulent stream of mixed primary and secondary, in which are suspended particles of the pulverized fuel, into an ignition chamber (55) and controls flame shape.

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