

Title (en)
Coal gasification burner and apparatus.

Title (de)
Kohlevergasungsbrenner und Vorrichtung.

Title (fr)
Brûleur et appareil pour la gazéification de charbon.

Publication
EP 0101213 A2 19840222 (EN)

Application
EP 83304274 A 19830722

Priority
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• US 40739782 A 19820812

Abstract (en)
A burner (10) for the partial oxidation of a particulate fuel to form a gaseous product, comprises a burner body (21) having a mixing compartment (26) and a discharge end; and conduits (29, 27) for supplying a particulate fuel, such as coal slurry, and oxygen to the mixing compartment, the burner having an end face (24) with a discharge lip (23) in the end face defining a nozzle (22) for discharge of combustion mixture from the mixing compartment (26). An annular manifold (37) is disposed adjacent the end face and extends circumferentially of the discharge lip (23), and a conduit (39) supplies pressurised steam to the manifold. The manifold (37) has a constricted opening (42, 43) positioned to deliver a pressurised stream of steam from the manifold generally transversely of the burner end face (24) towards the discharge lip (23), whereby to form a dynamic fluid shield across the burner face to preclude slag or ash particles from contacting the face and building up any solid accumulation.

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Cited by
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