

Title (en)
AIR STAGED LOW-NO_x BURNER

Title (de)
LUFT GESTUFTER BRENNER MIT NIEDRIGEM NO_x-AUSSTOSS

Title (fr)
BRULEUR A FAIBLE TAUX D'EMISSION DE NO_x A COMBUSTION ETAGEE

Publication
EP 1224422 A1 20020724 (EN)

Application
EP 00989709 A 20001026

Priority
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Abstract (en)
[origin: WO0135022A1] An apparatus and method for using staged air combustion. The apparatus includes a burner body (10) secured to a port block (42), and a fuel passageway (12) extending through the burner body (10), terminating in a fuel nozzle (22), which injects fuel into the burner throat (40). Primary air jets (20) are configured to inject primary air into a primary combustion region (24), which is normally in the burner throat (40). A dish with a dish surface (28) is connected to the burner throat (40); the dish surface (28) extending in a divergent angle with respect to a burner centerline (35). Secondary air jets (34) are connected to the air passageway (14) and extend through the port block (42). The secondary air jets (34) inject secondary air into a secondary combustion region (38), which may be at the dish surface (28) or the hot face (30) of the burner.

IPC 1-7
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IPC 8 full level
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CPC (source: EP)
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