

Title (en)
Air-atomized oil burner

Title (de)
Ölbrenner mit Druckluftzerstäuber

Title (fr)
Brûleur à huile avec pulvérisateur à air

Publication
EP 0709621 B1 20000405 (EN)

Application
EP 95830449 A 19951026

Priority
IT BO940477 A 19941031

Abstract (en)
[origin: EP0709621A2] The air-atomized oil burner comprises three coaxial tubes (2, 3, 5), the innermost one (2) being designed to feed fuel oil, while the middle one (3) and outermost one (5) are fed by the same air supply at low pressure and ambient temperature, and comprises also an atomizing nozzle (7) consisting of a head (8) fitted to the innermost tube (2) and having peripheral grooves (10) extending at an angle with respect to the axis of the head (8) and terminating at a conical section (11) of the head (8) itself, and of a casing (12) which closes the said middle tube (3) and which has an axial hole (13) for housing the said head (8); in the axial hole (13) the head (8) defines a small sized atomization chamber (16) into which the grooves (10) and the fuel oil feed holes (17) lead in perpendicular directions; the atomization chamber (16) feeds the atomized oil along the middle tube (3) where it is mixed with secondary air (6) fed through radial holes (19) made in the middle tube (3) itself. <IMAGE>

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F23D 11/10

IPC 8 full level
F23D 11/10 (2006.01)

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