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(57) Abstract :

The invention comprises a recuperator shell (1) mounted on a base (2). The shell has an internal hollow pipe (4) for flue gas exhaust which is connected to an orifice (7) at the base (2), orifice for air inlet (3) and hot air outlet orifice (5). The internal hollow pipe (4) is so designed that at its exterior cylindrical surface, multiple turns of a guide way (6) are welded in a helical fashion. The angle at which each guideway (6) is helixed is 45o which gives a tangential flow direction to natural fresh air entering through the orifice (3).

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