

Title (en)
ENERGY EFFICIENT COOKWARE

Title (de)
ENERGIESPARENDES KOCHGESCHIRR

Title (fr)
BATTERIES DE CUISINE À FAIBLE CONSOMMATION D'ÉNERGIE

Publication
EP 2136687 A2 20091230 (EN)

Application
EP 07753867 A 20070323

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Abstract (en)
[origin: WO2008076140A2] Energy efficient cookware is provided that includes a base and a wall, a radial pattern of flame guide channels a radial pattern of perturbation channels are connected to the base bottom. The guide channel accepts a flame and guides it to the perimeter from the central region. The perturbation fin generates turbulence in the guided flame to increase heat transfer from the flame to the base and the fins. An insertion plate is disposed on the base top side. The plate has a pattern of boiling nucleation stubs with a venting feature on one side. The stubs interlay liquid input ports and vapor exit ports. A volume of the liquid is between the stub and base top. The liquid rapidly vaporizes when the base is heated. The vapor migrates from the stub top surface and through the exit port, where the volume is refilled with liquid from the input port.

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