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(21) International Application Number: PCT/DK98/00052 (22) International Filing Date: 17 February 1998 (17.02.98) (30) Priority Data: 0571/97 16 May 1997 (16.05.97) DK (71) Applicant (for all designated States except US): PLF INTERNATIONAL A/S [DK/DK]; Det Gule Pakhus, Havnepladsen 3B, DK-5700 Svendborg (DK). (72) Inventor; and (75) Inventor/Applicant (for US only): HANSEN, Ejner, Bjørn [DK/DK]; Pederstrupvej 9, DK-5210 Odense NV (DK). (74) Agent: HOLME, Edvard; Holme Patent A/S, Vesterbrogade 20, DK-1620 Copenhagen V (DK).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>With amended claims.</i>

(54) Title: APPARATUS FOR A HEAT TREATMENT OF A PARTICULAR FOOD PRODUCT

(57) Abstract

Apparatus with a chamber (1) serving for a heat treatment of a particular food product (11), which for example can be pre-processed potato pieces which are to be prepared as French fried potatoes, and therefore have a content of evaporable substances, such as fat. In the chamber (1) is a grid (10) for, during operation, carrying the product, and one or more quartz lamps (23) for generating heat for the process. The chamber (1) is furthermore fitted with an air shaft (34) which via a filter device connects the chamber (1) to the open. Above the grid (10) is placed a cabinet (20) which is open at the bottom, for mounting the quartz lamps (23). The cabinet (20) is via an inlet duct (26) connected to the open. In the inlet duct (26) is placed a ventilator (28) for sending an air current into the cabinet (20) via the inlet duct (26). The air acts as a shield which keeps for example fat vapours at a distance so that they cannot come into contact with the quartz lamps (23) and disintegrate in the high temperature of these. Thereby, it is prevented that unhealthy and malodorous substances are produced during the process. The air shield furthermore cools the quartz lamps (23) which thereby will attain a long life.

