

Title (en)  
Browning utensils for microwave ovens.

Title (de)  
Bräunungsgeschirr für Mikrowellenöfen.

Title (fr)  
Ustensiles de brunissage pour fours à micro-ondes.

Publication  
**EP 0374302 A1 19900627 (DE)**

Application  
**EP 88121569 A 19881223**

Priority  
EP 88121569 A 19881223

Abstract (en)  
[origin: JPH02232011A] PURPOSE: To obtain a metal-coated tableware well-absorbing the microwave energy, well-depositing on a tableware base, and insoluble into a foodstuff by preparing a metal-included enamel layer and a metal-excluded enamel layer over the tableware surface. CONSTITUTION: The metal-included layer provided over the tableware surface comprises, by weight, 15-40% of enamel including powder copper, aluminum, iron, nickel, tin and zinc or 60-85% of their alloys, 3-15% of alkaline metal oxide, 5-20% of aluminum oxide, 5-30% of boron oxide, 40-70% of silicon oxide, 0-10% of alkaline earth metal oxide, 0-20% of zinc oxide, 0-15% of titanium oxide, 0-40% of zirconium oxide, 0-10% of tin oxide, and 0-5% of fluoride. The enamel in the metal-excluded protective layer is similar to the metal-included layer in the quality. Glass frit is concerned with a thermal expansion coefficient variable dependent upon the tableware base comprising ceramic glass or glass-ceramics and over a temperature range of 20-300 deg.C, and with this well refracted, the glass frit which with exhibit such a thermal expansion coefficient under best-machining encountering conditions is selected.

Abstract (de)  
Zur Bräunung von Speisen in Mikrowellenöfen verwendet man ein Bräunungsgeschirr aus Glas, Keramik oder Glaskeramik, auf das zuerst eine Schicht aus einer metallhaltigen Glasur, und darüber eine Schicht aus einer metallfreien Glasur aufgetragen ist.

IPC 1-7  
**H05B 6/64**

IPC 8 full level  
**A47G 19/00** (2006.01); **A47J 27/00** (2006.01); **C03C 17/36** (2006.01); **C04B 41/88** (2006.01); **F24C 7/02** (2006.01); **H05B 6/64** (2006.01)

CPC (source: EP US)  
**H05B 6/6494** (2013.01 - EP US); **Y10S 99/14** (2013.01 - EP US)

Citation (search report)  
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• [A] EP 0215708 A1 19870325 - ESSWEIN SA [FR]  
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• [A] EP 0294503 A1 19881214 - DEGUSSA [DE]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 137 (M-222)(1282) 15 Juni 1983, & JP-A-58 52917 (KIYOUSERA K.K.) 29 März 1983,

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