

Title (en)
METHOD FOR DYING CERAMIC SURFACES

Title (de)
VERFAHREN ZUM FÄRBEN VON KERAMIKOBERFLÄCHEN

Title (fr)
PROCEDE POUR TEINTER DES SURFACES CERAMIQUES

Publication
EP 1047652 A1 20001102 (DE)

Application
EP 99969080 A 19990909

Priority
• DE 19841318 A 19980910
• EP 9906652 W 19990909

Abstract (en)
[origin: DE19841318A1] Ceramic surfaces are colored by forming a mixed phase pigment made of a colorless metal oxide as matrix lattice consisting of a different crystal lattice structure than the colored pigment, and an aqueous coloring solution in the surface of a ceramic body. Process for coloring ceramic surfaces comprises forming in the surface of a ceramic body a mixed phase pigment made of a colorless metal oxide as matrix lattice consisting of a different crystal lattice structure than the colored pigment, and an aqueous coloring solution by either incorporating the finely divided colorless oxide into the ceramic composition and applying the colored solution to the surface layer, or by reacting the aqueous coloring solution with a soluble compound of the metal ions forming the lattice in a sufficient amount to form the lattice, and applying this mixture to the surface, or applying a solution of the metal ions forming the lattice and followed by the coloring solution and firing the ceramic body at 800-1400 deg C after drying the solvent.

IPC 1-7
C04B 41/85; **C09C 1/00**

IPC 8 full level
C04B 33/14 (2006.01); **C04B 41/50** (2006.01); **C04B 41/52** (2006.01); **C04B 41/85** (2006.01); **C04B 41/89** (2006.01)

CPC (source: EP)
C04B 33/14 (2013.01); **C04B 41/009** (2013.01); **C04B 41/5007** (2013.01); **C04B 41/52** (2013.01); **C04B 41/85** (2013.01); **C04B 41/89** (2013.01); **C04B 2111/82** (2013.01)

Citation (search report)
See references of WO 0015580A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19841318 A1 20000323; **DE 19841318 C2 20010510**; AU 5975699 A 20000403; BR 9906943 A 20001003; CN 1287549 A 20010314; EP 1047652 A1 20001102; TR 200001316 T1 20010221; WO 0015580 A1 20000323

DOCDB simple family (application)
DE 19841318 A 19980910; AU 5975699 A 19990909; BR 9906943 A 19990909; CN 99801855 A 19990909; EP 9906652 W 19990909; EP 99969080 A 19990909; TR 200001316 T 19990909