

Title (en)

Process for producing a protective coating on the interior surface of a copper pipe

Title (de)

Verfahren zur Erzeugung einer Schutzschicht auf der inneren Oberfläche eines Kupferrohrs

Title (fr)

Procédé de fabrication d'une couche protectrice sur la surface intérieure d'un tuyau en cuivre

Publication

EP 0955394 A3 20000412 (DE)

Application

EP 99107792 A 19990420

Priority

DE 19819925 A 19980505

Abstract (en)

[origin: EP0955394A2] An internal copper dissolution preventative layer is produced on a copper pipe using an aqueous solution to form a basic copper carbonate or copper chloride layer. A protective layer is produced on the interior surface of a copper pipe by (a) filling the pipe with an aqueous oxidizing solution, leaving for 0.1-48 hr. at 10-95 degrees C, water rinsing and then drying; (b) wetting the pipe surface with copper ammonium chloride solution and then contacting with an oxygen-containing gas; or (c) electrodepositing the layer from a basic copper carbonate electrolyte solution, water rinsing and drying.

IPC 1-7

C23C 22/63; **C23C 22/52**; **C23C 8/10**; **C25D 11/34**

IPC 8 full level

C23C 8/10 (2006.01); **C23C 8/42** (2006.01); **C23C 22/52** (2006.01); **C23C 22/63** (2006.01); **C25D 11/34** (2006.01)

CPC (source: EP)

C23C 8/42 (2013.01); **C23C 22/52** (2013.01); **C23C 22/63** (2013.01); **C25D 11/34** (2013.01)

Citation (search report)

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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EP 0955394 A2 19991110; **EP 0955394 A3 20000412**; **EP 0955394 B1 20050119**; AT E287460 T1 20050215; DE 19819925 A1 19991111; DE 59911465 D1 20050224; DK 0955394 T3 20050523; ES 2236985 T3 20050716; PT 955394 E 20050331

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