

CPC**COOPERATIVE PATENT CLASSIFICATION****C23D****ENAMELLING OF, OR APPLYING A VITREOUS LAYER TO, METALS**(chemical composition of the enamels [C03C](#))**C23D 1/00****Melting or fritting the enamels; Apparatus or furnaces therefor**

C23D 1/02

- . Granulating the melt; Drying the granules

Guidance heading: Coating with the enamels

C23D 3/00**Chemical treatment of the metal surfaces prior to coating**(cleaning and de-greasing of metallic objects [C23G](#))**C23D 5/00****Coating with enamels or vitreous layers**{(including applying fused refractory layers [C23C 4/10](#) , [C23C 24/10](#))}

C23D 5/005

- . {by a method specially adapted for coating special objects}

C23D 5/02

- . by wet methods

C23D 5/04

- . by dry methods

C23D 5/06

- . producing designs or letters

C23D 5/08

- . Applying enamels non-uniformly over the surface

C23D 5/10

- . with refractory materials

NOTE

Group [C23D 5/10](#) is no longer used for classification. Documents are in the state of being reclassified to [C23C 4/10](#) and [C23C 24/10](#) .

C23D 7/00**Treating the coatings, e.g. drying before burning**

Guidance heading: Firing the enamels

C23D 9/00**Ovens specially adapted for firing enamels**

C23D 9/02

- . Non-electric muffle furnaces

C23D 9/04

- . Non-electric tunnel ovens

C23D 9/06 . Electric furnaces

C23D 9/08 . Supporting devices for burning-bars

C23D 9/10 . Loading or unloading devices

C23D 11/00 Continuous processes; Apparatus therefor

Guidance heading: After-treatment

C23D 13/00 After-treatment of the enamelled articles

C23D 13/02 . Removing defects by local re-melting of the enamel; Adjusting the shape

C23D 15/00 Joining enamelled articles to other enamelled articles by processes involving an enamelling step

C23D 17/00 De-enamelling