

CPC**COOPERATIVE PATENT CLASSIFICATION****C23D**

ENAMELLING OF, OR APPLYING A VITREOUS LAYER TO, METALS (
chemical composition of the enamels [C03C](#))

Guidance heading:

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