

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**