

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

METALLURGY

C23 COATING METALLIC MATERIAL; COATING MATERIAL WITH METALLIC MATERIAL (by metallising textiles [D06M 11/83](#); decorating textiles by locally metallising [D06Q 1/04](#)); **CHEMICAL SURFACE TREATMENT; DIFFUSION TREATMENT OF METALLIC MATERIAL; COATING BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL VAPOUR DEPOSITION, IN GENERAL** (for specific applications, see the relevant places, e.g. for manufacturing resistors [H01C 17/06](#)); **INHIBITING CORROSION OF METALLIC MATERIAL OR INCRUSTATION IN GENERAL** (treating metal surfaces or coating of metals by electrolysis or electrophoresis [C25D](#), [C25F](#))
(NOTES omitted)

C23D ENAMELLING OF, OR APPLYING A VITREOUS LAYER TO, METALS (chemical composition of the enamels [C03C](#))

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Melting or fritting the enamels; Apparatus or furnaces therefor

1/02 . Granulating the melt; Drying the granules

9/10 . Loading or unloading devices

11/00 Continuous processes; Apparatus therefor

Coating with the enamels

3/00 Chemical treatment of the metal surfaces prior to coating (cleaning and de-greasing of metallic objects [C23G](#))

5/00 Coating with enamels or vitreous layers {(including applying fused refractory layers [C23C 4/10](#), [C23C 24/10](#))}

5/005 . {by a method specially adapted for coating special objects}

5/02 . by wet methods

5/04 . by dry methods

5/06 . producing designs or letters

5/08 . Applying enamels non-uniformly over the surface

5/10 . {with refractory materials}

WARNING

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](#).

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

Firing the enamels

9/00 Ovens specially adapted for firing enamels

9/02 . Non-electric muffle furnaces

9/04 . Non-electric tunnel ovens

9/06 . Electric furnaces

9/08 . Supporting devices for burning-bars

After-treatment

13/00 After-treatment of the enamelled articles

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

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

17/00 De-enamelling