

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	9/10	. Loading or unloading devices
1/02	. Granulating the melt; Drying the granules	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