

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

METALLURGY

C23 COATING METALLIC MATERIAL; COATING MATERIAL WITH METALLIC MATERIAL; CHEMICAL SURFACE TREATMENT; DIFFUSION TREATMENT OF METALLIC MATERIAL; COATING BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL VAPOUR DEPOSITION, IN GENERAL; INHIBITING CORROSION OF METALLIC MATERIAL OR INCRUSTATION IN GENERAL

(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	<u>After-treatment</u>	
1/02	• Granulating the melt; Drying the granules	13/00	After-treatment of the enamelled articles
		13/02	• Removing defects by local re-melting of the enamel; Adjusting the shape
<u>Coating with the enamels</u>			
3/00	Chemical treatment of the metal surfaces prior to coating (cleaning and de-greasing of metallic objects C23G)	15/00	Joining enamelled articles to other enamelled articles by processes involving an enamelling step
5/00	Coating with enamels or vitreous layers {(including applying fused refractory layers C23C 4/10, C23C 24/10)}	17/00	De-enamelling
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}		
<u>WARNING</u>			
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
9/10	• Loading or unloading devices
11/00	Continuous processes; Apparatus therefor