

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](#))
(NOTE omitted)

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

1/00	Melting or fritting the enamels; Apparatus or furnaces therefor	<u>After-treatment</u>	
1/02	<ul style="list-style-type: none"> Granulating the melt; Drying the granules 	13/00	After-treatment of the enamelled articles
		13/02	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> {by a method specially adapted for coating special objects} 		
5/02	<ul style="list-style-type: none"> by wet methods 		
5/04	<ul style="list-style-type: none"> by dry methods 		
5/06	<ul style="list-style-type: none"> producing designs or letters 		
5/08	<ul style="list-style-type: none"> Applying enamels non-uniformly over the surface 		
5/10	<ul style="list-style-type: none"> {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	<ul style="list-style-type: none"> Non-electric muffle furnaces
9/04	<ul style="list-style-type: none"> Non-electric tunnel ovens
9/06	<ul style="list-style-type: none"> Electric furnaces
9/08	<ul style="list-style-type: none"> Supporting devices for burning-bars
9/10	<ul style="list-style-type: none"> Loading or unloading devices
11/00	Continuous processes; Apparatus therefor