

# 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.

<b>1/00</b>	<b>Melting or fritting the enamels; Apparatus or furnaces therefor</b>	<b><u>After-treatment</u></b>	
1/02	• Granulating the melt; Drying the granules	<b>13/00</b>	<b>After-treatment of the enamelled articles</b>
		13/02	• Removing defects by local re-melting of the enamel; Adjusting the shape
<b><u>Coating with the enamels</u></b>			
<b>3/00</b>	<b>Chemical treatment of the metal surfaces prior to coating (<a href="#">cleaning and de-greasing of metallic objects C23G</a>)</b>	<b>15/00</b>	<b>Joining enamelled articles to other enamelled articles by processes involving an enamelling step</b>
<b>5/00</b>	<b>Coating with enamels or vitreous layers {(<a href="#">including applying fused refractory layers C23C 4/10, C23C 24/10</a>)}</b>	<b>17/00</b>	<b>De-enamelling</b>
5/005	• { <a href="#">by a method specially adapted for coating special objects</a> }		
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	• { <a href="#">with refractory materials</a> }		
<b><u>WARNING</u></b>			
Group <a href="#">C23D 5/10</a> is no longer used for classification. Documents are in the state of being reclassified to <a href="#">C23C 4/10</a> and <a href="#">C23C 24/10</a> .			
<b>7/00</b>	<b>Treating the coatings, e.g. drying before burning</b>		

##### Firing the enamels

<b>9/00</b>	<b>Ovens specially adapted for firing enamels</b>
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
<b>11/00</b>	<b>Continuous processes; Apparatus therefor</b>