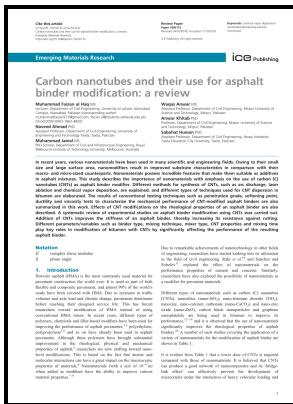


Characterisation and modification of binders used in the manufacture of carbon anodes.

the Polytechnic - ES2605423T3



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Notes: Thesis (Ph.D.) - Wolverhampton Polytechnic (CNA), 1989.
This edition was published in 1989



Filesize: 70.16 MB

Tags: #ES2605423T3

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In another optional aspect, the carbonaceous anode may be characterized in that a boron concentration in the carbonaceous anode at most about 150 ppm

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Green anodes were formed after mixing 16% of the electrode binder SPM 182 °C, cooking value 76. El metodo de la invencion para evitar el enfriamiento de la pasta es igualmente aplicable a la produccion de otros artefactos carbonaceos usando coque de brea, coque de aguja u otros solidos carbonaceos. When the first fraction comprises fine coke particles, the contact with the boron-containing solution results in a fraction of fine boron-impregnated coke particles, and when the fraction of coarser coke particles is also contacted with the boron-containing solution, one obtains a mixture of fine and coarser boron-impregnated coke particles.

Characterization of petroleum coke and butts used in anode manufacturing in aluminum industry

La resistencia inesperada del anodo de SPM de 182 °C esta confirmada ya que no excede 0,5 % de compresion cuando se carga con 1 MPa y 0,55 % entre 1 y 2 MPa. Proceso de acuerdo con las reivindicaciones 1 o 2, en el que la brea es una brea de alquitran que tiene un contenido de hidrocarburos aromaticos polidicos PAH segun la EPA no superior al 1,5 %. For instance, the coke particles may be immersed in the solution.

WO2018129621A1

Untreated anodes were prepared in the same way as mentioned above for the treated anodes except that the coke particles were not treated with the solution of boron oxide prior and were directly mixed with the pitch to form the anode paste. Initially Soederberg anodes were produced from anode pastes by sintering and carbonization on the electrolysis cell.

Thermomechanical characterisation of coal tar pitch

In another optional aspect, the pre-treatment process may comprise contacting the coke particle by immersing the coke particles in the boron-containing solution. Such a high level of boron addition would not be recommended in carbon anode for aluminium production, since boron will most likely reduce in the bath and enter the aluminium.

Thermomechanical characterisation of coal tar pitch

El proceso de fabricacion de anodos representa una parte significativa de los costos de reduccion de alumina.

Heteroatom

In an optional aspect, the carbonaceous anode may be characterized in that the boron-impregnated coke particles are distributed throughout the carbonaceous anode including a core thereof. In another optional aspect, the pre-treatment process may comprise contacting the coke particle by spraying the boron-containing solution on the coke particles.

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