

Title (en)

Process for making high-power graphite electrodes.

Title (de)

Verfahren zur Herstellung von Hochleistungs-Graphitelektroden.

Title (fr)

Procédé de fabrication d'électrodes de graphite à grande puissance.

Publication

**EP 0177981 A1 19860416 (DE)**

Application

**EP 85200993 A 19850624**

Priority

DE 3432887 A 19840907

Abstract (en)

1. A process for making high-power graphite electrodes from two components in the form of anisotropic needle cokes and an electrode binder on the basis of coal tar pitch, which has a proportion of beta-resins of more than 20% by weight and a quinoline-insoluble content (QI) of more than 5% by weight, which process comprises the steps of mixing the two components, moulding the green electrode and burning and graphitizing the electrode, characterized in that 70 to 80 parts by weight of an anisotropic needle coke are mixed homogeneously with 20 to 30 parts by weight of the binder, which has an atomic C/H ratio of the quinoline-insoluble of a maximum of 3 : 1, an ash value of 0.1% by weight or less and a softening point of 80 to 120 degrees C.

Abstract (de)

Die Erfindung betrifft ein Verfahren zur Herstellung von Hochleistungs-Graphitelektroden mit verbessertem Puffing-Verhalten und guten mechanischen Eigenschaften durch Verwendung eines anisotrop verkokenden Bindemittels auf der Basis von Steinkohlenteerpech mit weniger als 0,2 Gew.-% Asche und einem Gehalt an Chinolinunlöslichen von mehr als 5 Gew.-% mit einem atomaren C/H-Verhältnis von weniger als 3:1.

IPC 1-7

**H05B 7/085**; **C10B 55/00**

IPC 8 full level

**C10B 55/00** (2006.01); **H05B 7/085** (2006.01)

CPC (source: EP)

**H05B 7/085** (2013.01)

Citation (search report)

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