

Title (en)
Connection and support arrangement for the electrodes of an arc furnace.

Title (de)
Anschluss- und Tragevorrichtung für die Elektroden eines Lichtbogenofens.

Title (fr)
Dispositif d'alimentation et de support d'électrodes pour four à arcs.

Publication
EP 0080954 A1 19830608 (FR)

Application
EP 82402192 A 19821201

Priority
FR 8122521 A 19811201

Abstract (en)
1. Arrangement for the supply of electrical energy to and for the support of the electrodes in an electric arc furnace comprising three electrodes fixed respectively in grips (14, 15, 16) placed at the respective ends of three support arms (8, 9, 10) extending horizontally from a vertical pillar, the said electrodes being connected by rigid electrical conductors to cables (13) for the supply of current, characterized in that the rigid conductors for the supply of electricity to the electrodes are constituted by the same horizontal support arms (8, 9, 10), the latter being constructed of non-magnetic metal and being provided, at their downstream ends opposite to the electrodes, with respective contact elements (11, 12) to which the cables (13) for the supply of current are connected.

Abstract (fr)
Dispositif d'alimentation en énergie électrique, et de support mécanique des électrodes d'un four électrique à arcs destiné à équiper une aciérie. Il est équipé de bras porte-électrode (8,9,10) en acier inoxydable leur extrémité amont (11, 12) servant de plage de contact aux câbles (13) d'amenée du courant. Le bras sont de section circulaire et sont soit rectilignes, soit présentant des courbures douces.

IPC 1-7
H05B 7/103

IPC 8 full level
H05B 7/11 (2006.01); **H05B 7/103** (2006.01)

CPC (source: EP)
H05B 7/103 (2013.01)

Citation (search report)
• [Y] FR 848766 A 19391107 - UMBRA PRODOTTI CHIMICI SOC
• [Y] US 3395238 A 19680730 - ROBINSON CHARLES G
• [A] FR 783511 A 19350715
• [A] FR 1569521 A 19690530
• [A] US 3433878 A 19690318 - SUNDBERG YNGVE, et al

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FR2563404A1; EP0184140A3; US4742529A; FR3045268A1; EP0594272A1; DE102014208516A1

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