

Title (en)
SEALING SYSTEM FOR ELECTRODES

Publication
EP 0093070 B1 19880518 (FR)

Application
EP 83630066 A 19830418

Priority
LU 84104 A 19820422

Abstract (en)
[origin: US4457002A] A seal for use around a rod electrode passing along an axis through a hole in the wall of a furnace into the interior of the furnace has an annular and at least limitedly flexible seal ring fitted snugly around the electrode in the hole and a holder carrying the seal ring and sealingly engaged with the furnace wall. Thus gas flow through the wall at the hole past the seal ring is substantially blocked. The seal assembly has structure forming with the electrode and seal ring a substantially closed chamber surrounding the electrode axially inward into the furnace from the ring. This chamber is pressurized at superatmospheric pressure with an inert gas and the electrode is cooled inward of the furnace from the seal ring. The seal ring is compressed axially by a packing assembly so it is pressed radially against the electrode. The packing includes rigid split compression rings bearing axially on the seal ring.

IPC 1-7
H05B 7/12

IPC 8 full level
H05B 7/103 (2006.01); **H05B 7/12** (2006.01)

CPC (source: EP US)
H05B 7/12 (2013.01 - EP US)

Cited by
DE4342511A1; GB2324595A; GB2324595B

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0093070 A1 19831102; EP 0093070 B1 19880518; AT E34501 T1 19880615; CA 1231997 A 19880126; DE 3376731 D1 19880623; DK 76583 A 19831023; DK 76583 D0 19830222; FI 76473 B 19880630; FI 76473 C 19881010; FI 830435 A0 19830208; FI 830435 L 19831023; JP S58188092 A 19831102; LU 84104 A1 19840302; NO 159317 B 19880905; NO 159317 C 19881214; NO 831416 L 19831024; US 4457002 A 19840626

DOCDB simple family (application)
EP 83630066 A 19830418; AT 83630066 T 19830418; CA 420528 A 19830128; DE 3376731 T 19830418; DK 76583 A 19830222; FI 830435 A 19830208; JP 6383683 A 19830413; LU 84104 A 19820422; NO 831416 A 19830421; US 48684283 A 19830420