

Title (en)

Glass-aluminium sealing process, in particular for a hybrid circuit box electrical feedthrough, corresponding composite article and glass composition.

Title (de)

Glas-Aluminium-Abdichtungsverfahren, insbesondere für eine elektrische Durchführung eines Gehäuses für Hybridschaltungen, entsprechend zusammengesetzter Gegenstand und Glaszusammensetzung.

Title (fr)

Procédé de scellement verre-aluminium, notamment pour traversée électrique de boîtier de circuit hybride, objet composite et composition de verre correspondants.

Publication

**EP 0379431 B1 19941005 (FR)**

Application

**EP 90400134 A 19900117**

Priority

FR 8900709 A 19890120

Abstract (en)

[origin: EP0379431A1] An insulating electrical bushing (TRA) through a wall (PAR) made of aluminium is obtained from a sintered bush (FFR) comprising phosphate glass, into which a conductive pin (B) is inserted. The bush is raised to a firing temperature greater than the temperature for dilatometric softening of the vitreous material in the presence of a first effective quantity of alumina (OX1) between the bush and the wall and a second effective quantity of nickel oxide (OX2) between the bush and the pin, which makes it possible to obtain, simultaneously and directly, a hermetic seal between the bush and the wall and the pin and the bush.

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**H01B 17/30**; **H01L 21/50**

IPC 8 full level

**H01B 17/30** (2006.01); **H01J 9/32** (2006.01)

CPC (source: EP US)

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DOCDB simple family (publication)

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**EP 90400134 A 19900117**; CA 2008297 A 19900122; DE 69013017 T 19900117; FR 8900709 A 19890120; IL 9310190 A 19900118; US 25796094 A 19940610