Title (en)

SAFETY-BACKFLASH COATING APPARATUS

Publication

**EP 0047488 B1 19850821 (DE)**

Application

**EP 81106863 A 19810902**

Priority

- DE 3033579 A 19800906
- DE 8031847 U 19801129

Abstract (en)

[origin: EP0047488A2] 1. An application apparatus, which is protected against flashback, for applying metallic coating material on to metallic support surfaces to be coated, with an apparatus housing (3) which has feed passages (4, 4', 6) for first and second combustible gas components and the material to be applied, with an intermediate member (5) which has feed passages (8, 8', 6) extending to a nozzle connection side for the two combustible gas components and the material to be applied, and with a nozzle which comprises a central part (13) with a passage (17) for the first combustible gas component and with a passage (15) for the second combustible gas component and with a retaining part (14), an annular clearance (19) being formed between the central part (13) and the retaining part (14), characterised in that the intermediate member (5) has individual transverse passages (11, 11') closed gas-tightly from the outside, into which discharge respective axial feed passages (8", 8'") originating from the apparatus connection surface (2) and from which respectively at least one of the axial feed passages (8, 8') is continued to the nozzle (1), in that the combustible gas components are mixed in the nozzle (1) in an annular groove (20), in that in the nozzle (1) one axial feed passage (8) is connected via the passage (17) for the first combustible gas component and via the annular clearance (19) with the annular groove (20) which is spaced apart from the nozzle connection side, in that relative to the front surface (27) of the nozzle (1) the annular clearance (19) is sealed by substantially cylindrical peripheral surfaces of the central part (13) and retaining part (14) which are adjacent to one another in this zone (22), and in that in the nozzle (1) the other axial feed passage (8') is connected with the annular groove (20) via the passage (15) for the second combustible gas component.

IPC 1-7

B05B 7/20

IPC 8 full level

**B05B 7/20** (2006.01)

CPC (source: EP)

**B05B 7/201** (2013.01)

Citation (examination)

- DE 2332144 A1 19750116 - LICENTIA GMBH
- DE 2237056 A1 19740207 - LICENTIA GMBH
- US 4196228 A 19800401 - FREDERICK ALLEN H [US], et al
- GB 2011714 A 19790711 - PHILIPS NV
- IEEE JOURNAL OF SOLID-STATE CIRCUITS, Band SC-13, Nr. 3, Juni 1978 New York B. MURARI "Power Integrated Circuits: Problems, Tradeoffs, and Solutions" Seiten 307 bis 319

Designated contracting state (EPC)

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DOCDB simple family (publication)

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