

Title (en)  
Cathode for an electron gun.

Title (de)  
Kathode für eine Elektronenkanone.

Title (fr)  
Cathode pour canon électronique.

Publication  
**EP 0003937 A2 19790905 (FR)**

Application  
**EP 79400126 A 19790228**

Priority  
FR 7805813 A 19780301

Abstract (en)  
[origin: US4220889A] A cathode for an electron gun in which a lanthanum hexaboride cap has an internal recess which accommodates a pyrolytic graphite heater element. The cap is cup-shaped, while the heater element is in the form of a frustum of a cone and is resiliently maintained in abutting relationship with the cap by a corrugated tubular member and an assembly of rigid tubes. A cylindrical shell surrounds the periphery of the cap, and a pair of generally conical shielding elements are located in position to intercept stray thermal radiation from the heater element. All of these cathode components are supported in coaxial relationship with each other within the electron gun.

Abstract (fr)  
La cathode comporte une pastille en hexaborure de lanthane et une résistance chauffante en graphite pyrolitique parcourues par un courant électrique de chauffage. La pastille 10 présente la forma d'une pièce creuse de révolution dans laquelle est engagée, et contre une paroi 10a de laquelle est appliquée, la résistance 14, également de révolution. L'invention s'applique en particulier aux appareils de soudage par bombardement électronique.

IPC 1-7  
**H01J 3/02**

IPC 8 full level  
**H01J 1/20** (2006.01); **H01J 1/16** (2006.01); **H01J 3/02** (2006.01)

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