

Title (en)  
Directly heated cathodes.

Title (de)  
Direkt geheizte Kathoden.

Title (fr)  
Cathodes à chauffage direct.

Publication  
**EP 0326273 A2 19890802 (EN)**

Application  
**EP 89300425 A 19890118**

Priority  
GB 8801633 A 19880126

Abstract (en)  
A directly heated cathode for generating an electron beam along an axis (A) comprises two nested, dish-shaped conductors (4,5) on the axis joined electrically and mechanically on the axis by a spot weld (7), and supported by respective co-axial cylinders (1,2). A heater current supplied by the cylinders (1,2) flows between the conductor rims by way of the spot weld (7), and does not interfere with the electron beam generated by the outer conductor (5).

IPC 1-7  
**H01J 1/15**

IPC 8 full level  
**H01J 1/16** (2006.01); **H01J 1/15** (2006.01)

CPC (source: EP)  
**H01J 1/15** (2013.01)

Designated contracting state (EPC)  
AT BE CH DE ES FR GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0326273 A2 19890802; EP 0326273 A3 19900711; GB 2214705 A 19890906; GB 8801633 D0 19880224; JP H01281635 A 19891113**

DOCDB simple family (application)  
**EP 89300425 A 19890118; GB 8801633 A 19880126; JP 1738989 A 19890126**