

Title (en)  
Photomultiplier tube with a large collection homogeneity.

Title (de)  
Photovervielfacherröhre mit grosser Aufnahmewirksamkeit.

Title (fr)  
Tube photomultiplicateur rapide à grande homogénéité de collection.

Publication  
**EP 0389051 A1 19900926 (FR)**

Application  
**EP 90200640 A 19900319**

Priority  
FR 8903930 A 19890324

Abstract (en)  
Photomultiplier tube comprising a photocathode (10), focusing electrodes (12,12') and a focusing multiplier structure (20), of large entrance area relative to the photocathode and comprising, at least, one entrance dynode (21). According to the invention, the said photomultiplier tube possesses, between the photocathode (10) and the said focusing multiplier structure (20), a first multiplier stage (30) composed, in order starting from the photocathode (10) and focusing electrode (12,12') assembly, of a grid (31), of a multiplier dynode (32) of the perforated-plate type, and of an exciter grid (33) provided with the same arrangement of perforations as the said first multiplier dynode (32), the output of the exciter grid (33) being coupled to the said entrance dynode (21) of the focusing structure by a focusing electrode (40). <??>Application to photomultiplier tubes. <IMAGE>

IPC 1-7  
**H01J 43/04; H01J 43/06; H01J 43/18**

IPC 8 full level  
**H01J 43/18** (2006.01); **H01J 43/06** (2006.01)

CPC (source: EP US)  
**H01J 43/06** (2013.01 - EP US)

Citation (search report)  
• [AD] EP 0131339 A1 19850116 - HYPERELEC [FR], et al  
• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 19 (E-292)(1742) 25 janvier 1985, & JP-A-59 167946 (HAMAMATSU HOTONIKUSU) 21 septembre 1984,  
• [A] PATENT ABSTRACTS OF JAPAN vol. 5, no. 153 (E-76)(825) 26 septembre 1981, & JP-A-56 86449 (KOGYO GIJUTSUIN) 14 juillet 1981,

Cited by  
EP0898296A3

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**EP 0389051 A1 19900926; EP 0389051 B1 19940622**; CN 1046068 A 19901010; DE 69010039 D1 19940728; DE 69010039 T2 19950105; FR 2644932 A1 19900928; FR 2644932 B1 19910726; JP 2803889 B2 19980924; JP H02295053 A 19901205; US 5043628 A 19910827

DOCDB simple family (application)  
**EP 90200640 A 19900319**; CN 90101969 A 19900321; DE 69010039 T 19900319; FR 8903930 A 19890324; JP 6991590 A 19900322; US 49728690 A 19900322