

Title (en)
Klystrode frequency multiplier.

Title (de)
Klystrode-Frequenzvervielfacher.

Title (fr)
Klystrode multiplicateur de fréquence.

Publication
EP 0352961 B1 19940907 (EN)

Application
EP 89307345 A 19890720

Priority
US 22349088 A 19880725

Abstract (en)
[origin: EP0352961A1] An electron tube frequency multiplier has a control grid (18) producing a density-modulated beam (14) which is further bunched by a velocity-modulating cavity (30) resonant near the signal frequency. Energy at a multiplied frequency is extracted by a second cavity resonant at a harmonic of the signal frequency. The frequency limit of grid-controlled tubes is thereby increased several fold.

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H01J 25/00

IPC 8 full level
H01J 23/06 (2006.01); **H01J 23/20** (2006.01); **H01J 25/04** (2006.01)

CPC (source: EP)
H01J 25/04 (2013.01)

Cited by
FR2704093A1; US6465958B1; US10145215B2; WO9928943A1; WO9424690A3

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 89307345 A 19890720; DE 68918021 T 19890720; JP 18761989 A 19890721