

Title (en)
MULTI-ANODE TIME TO DIGITAL CONVERTER

Title (de)
MEHRANODEN ZEIT-DIGITALUMSETZER

Title (fr)
CONVERTISSEUR DU TEMPS EN DONNEES NUMERIQUES, A ANODES MULTIPLES

Publication
EP 0939970 A4 20000412 (EN)

Application
EP 97949425 A 19971114

Priority

- US 9720766 W 19971114
- US 75150996 A 19961115
- US 81489897 A 19970312
- US 81837697 A 19970314

Abstract (en)
[origin: WO9821742A1] An apparatus (82) for extending the dynamic range of a data acquisition. Multiple anode detectors (80) and microchannel plates (83) are used to increase the dynamic range of a time-to-digital converter (82). Multiple anodes (80) determine characteristics of a signal without distortion which normally occurs with large signals, or obscuring by noise which normally occurs with small signals. The data from the multi-anode detectors (80) can be summed during selectable time frames (100, 102) and made multiple bit words.

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IPC 8 full level
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CPC (source: EP)
G04F 10/00 (2013.01); **G04F 10/005** (2013.01); **H01J 49/025** (2013.01)

Citation (search report)

- [X] US 5166521 A 19921124 - HAYASHI SHIGEKI [JP], et al
- [A] FESTA, SELLEM: "AMultistop Time-to-Digital Converter", NUCLEAR INSTRUMENTS AND METHODS, vol. 188, 1981, pages 99 - 104, XP000872261
- See references of WO 9821742A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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WO 9821742 A1 19980522; AU 7181898 A 19980603; EP 0939970 A1 19990908; EP 0939970 A4 20000412; JP 2001504265 A 20010327

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