

Title (en)
Internal voltage grading and transient voltage protection for power transformer windings.

Title (de)
Spannungsverteilung über der Wicklung und Schutz von Leistungstransformatorwicklung gegen transiente Spannungen.

Title (fr)
Répartition de la tension à travers l'enroulement et protection des enroulements de transformateurs de puissance contre des tensions transitoires.

Publication
EP 0078985 A1 19830518 (EN)

Application
EP 82109918 A 19821027

Priority
US 31916881 A 19811109

Abstract (en)
A series string (17, 18) of plural zinc oxide varistor elements (17A-17N 18A-18N) is electrically connected across each winding (11, 12) of a power transformer. with interior winding taps (20, 22) being electrically connected to the junctions between varistor elements. Each varistor string, disposed within the transformer casing, protects its associated winding from voltage surges in the same manner as externally mounted lightning arresters, provides highly effective voltage grading, and suppresses harmful transient voltage oscillations between the winding taps.

IPC 1-7
H01F 27/34

IPC 8 full level
H02H 9/04 (2006.01); **H01F 27/34** (2006.01); **H02H 7/04** (2006.01)

CPC (source: EP)
H01F 27/343 (2013.01)

Citation (search report)

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- [Y] PATENTS ABSTRACTS OF JAPAN, vol. 5, no. 7, 17th January 1981, page 679 E41; & JP - A - 55 138 214 (TOKYO SHIBAURA DENKI K.K.) (28-10-1980)
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