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(54) **Apparatus and method for fabricating a low voltage winding for a toroidal transformer.**

(57) A winding apparatus and method for fabricating a multifilar low voltage winding for a toroidal transformer is disclosed. The method and apparatus use a wire storage magazine 18 and a wire winding shuttle 20 which rotate about a semitoroidal winding mandrel 38 to wind a multifilar low voltage winding 48 on the winding mandrel having a greater radial depth of turns at the radially inward leg of the winding than at the radially outward leg of the winding. The multifilar winding can be wound with a group of conductors in a single pass over the winding mandrel, or wound one conductor at a time using multiple passes over the winding mandrel, or wound using multiple passes over the winding mandrel with some intermediate number of conductors being wound during each pass.

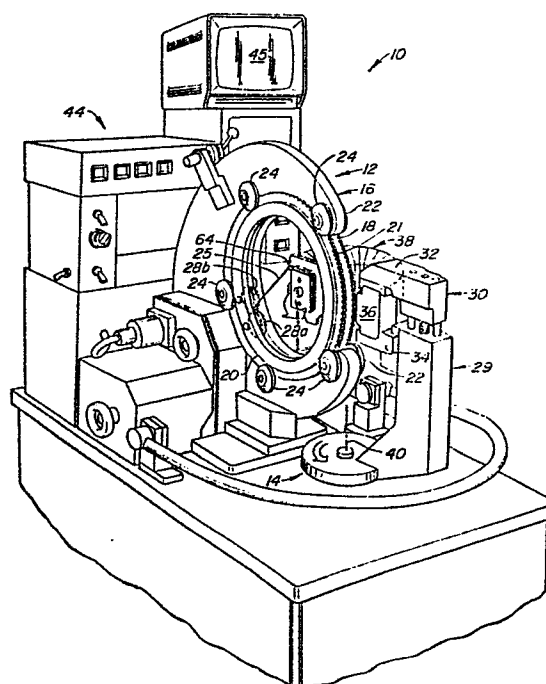


FIG. 1.



DOCUMENTS CONSIDERED TO BE RELEVANT			EP 86300783.7
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	US - A - 4 424 939 (OHASHI) * Abstract; fig. 1 *	1,8,10	H 01 F 41/08
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A	US - A - 4 467 972 (KAISER) * Abstract; fig. 1*	1,8,10	
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A	US - A - 4 269 366 (LINDENMEYER) * Abstract; fig. 1 *	1,8,10	
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P,A	US - A - 4 553 705 (UCHIDA) * Abstract; fig. 1,3,4 *	1,8,10	
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D,A	US - A - 3 383 059 (FAHRBACH) * Claims 1,2; fig. 1 *	1,8,10	
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D,A	US - A - 3 459 385 (FAHRBACH) * Abstract; fig. 1 *	1,8,10	H 01 F 41/00
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D,P, A	EP - A2 - 0 178 851 (KUHLMAN CORP.) * Abstract; fig. 1,9 *	1,8,10	
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D,A	EP - A1 - 0 083 567 (KUHLMAN CORP.) * Abstract; fig. 1,18 *	1,8,10	

The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 18-03-1987	Examiner VAKIL
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			