

12 **EUROPEAN PATENT APPLICATION**

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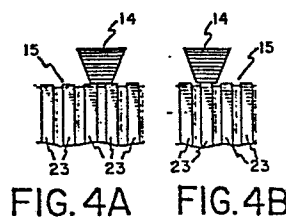
71 Applicant: **The Superior Electric Company**  
383 Middle Street  
Bristol Connecticut 06010(US)

72 Inventor: **Lenzing, Richard Steven**  
35 Garden Street  
Farmington Connecticut(US)

74 Representative: **Bannerman, David Gardner**  
Withers & Rogers 4 Dyer's Buildings Holborn  
London, EC1N 2JT(GB)

54 **Stepping-brush electrical device.**

57 An electrical device having a commutating surface (15) formed of segments (23) of electrical conductors upon which a contact brush (14) is movable while in electrical engagement therewith. Means are provided to step the brush between segments, so that when at rest, the brush contacts no more than one segment, thus reducing short-circuiting currents and overheating.





European Patent  
Office

# EUROPEAN SEARCH REPORT

0111991

Application number

EP 83 30 4835

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
X	US-A-3 312 921 (THE SUPERIOR ELECTRIC CO.) * column 2, line 16 - column 3, line 4 *	1-3, 9	H 01 F 29/06
X	FR-A-1 087 296 (STAGNARO) * page 1, column 2, lines 20-29 *	1, 2	
A	FR-A- 512 886 (GIVELET) * page 1, lines 17-20 *	10	
A	DE-A-1 463 462 (OHLE) * claim 8 *	5, 7	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			H 01 F 29/06
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17-09-1984	Examiner BINDON C.A.
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	