

United States Patent [19]

Patent Number: 6,081,059 [11] Hsu **Date of Patent:** Jun. 27, 2000 [45]

[54]	OUTER-ROTOR ELECTRIC MOTOR HAVING INNER-STATOR FORMED BY CONCENTRICALLY WRAPPING FLATTENED STATOR ELEMENTS ON STATOR CORE		
[76]	Inventor: Chun-Pu Hsu, 19, Wu-Chien Sixth Road, Wu-Ku Industrial Park, Wu-Ku, Taipei Hsien, Taiwan		
[21]	Appl. No.: 09/296,691		
[22]	Filed: Apr. 21, 1999		
[52]	Int. Cl. ⁷		
[58]	Field of Search		
[56]	References Cited		
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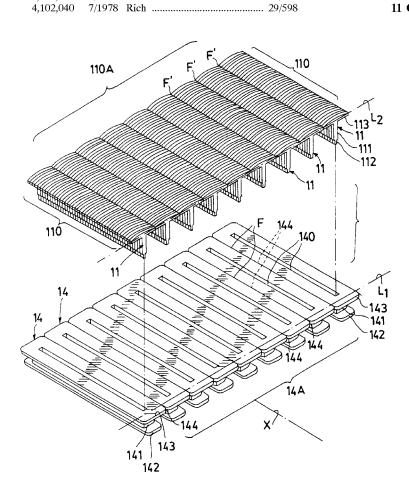
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Primary Examiner—Nestor Ramirez Assistant Examiner-Tran N Nguyen

[57] **ABSTRACT**

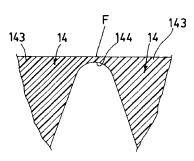
An electric motor of outer-rotor type includes: an inner stator mounted on a stator holder, an outer rotor rotatably circumferentially disposed around the inner stator, a shaft coaxially secured with the outer rotor, and a housing combined with the stator holder for encasing the outer rotor and the inner stator within the housing; with the inner stator including an annular core made of magnetic conductor, a plurality of fin arrays made of magnetic conductors and formed as a fin array assembly concentrically wrapped on the annular core, and a plurality of insulating coil bobbins each coil bobbin pre-wound with the coil windings thereon and jacketed on each fin array, thereby forming an inner stator having a stable construction, a higher winding capacity, higher magnetic flux density and higher output power, as well as a lower production cost.

11 Claims, 8 Drawing Sheets

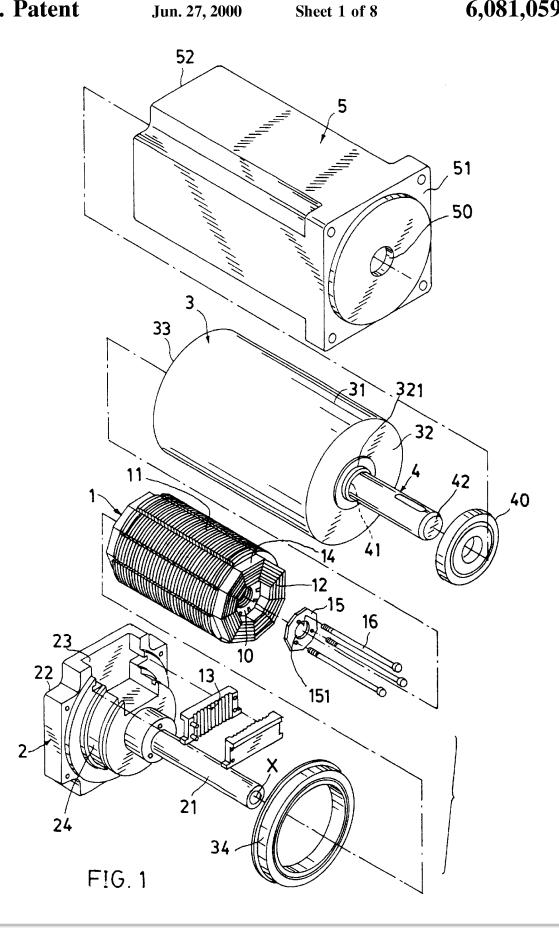


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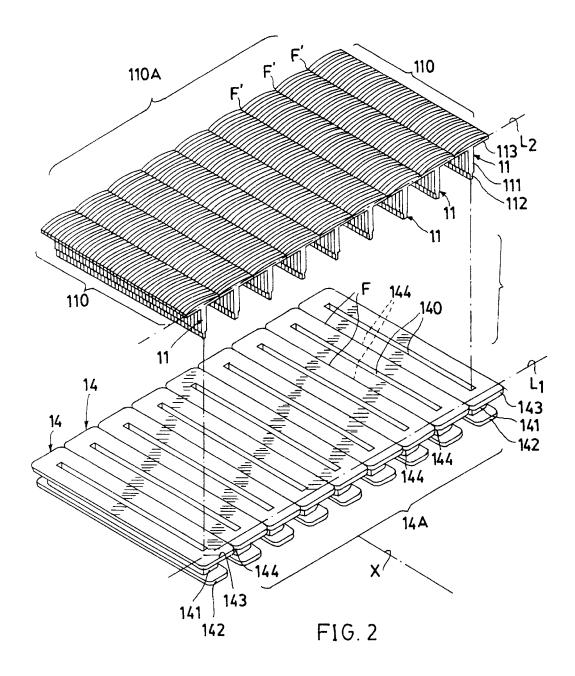




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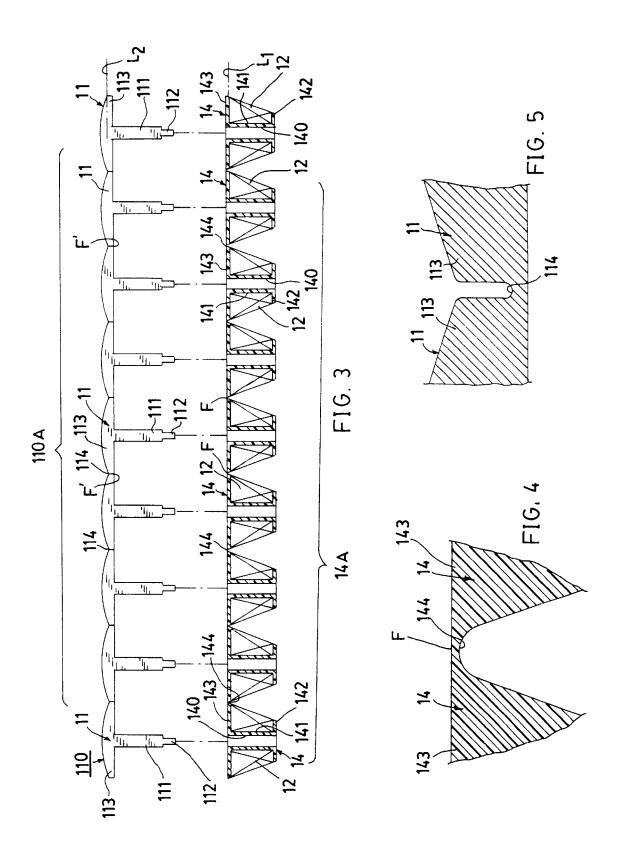




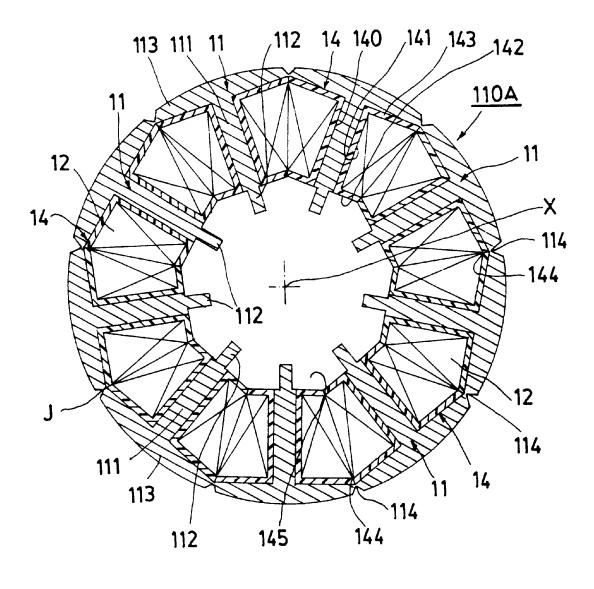


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