



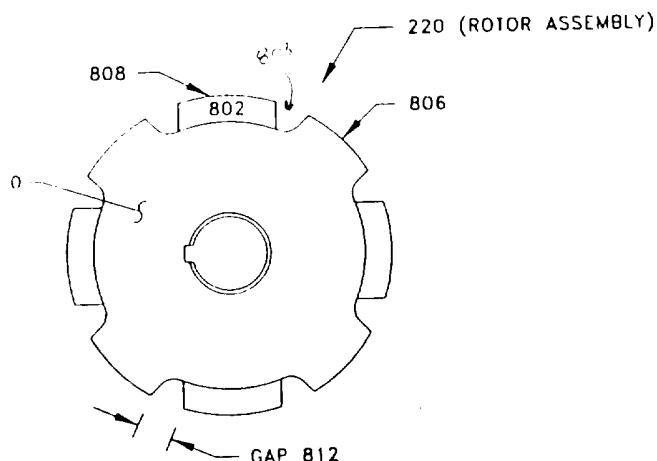
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H02K 5/00	A3	(11) International Publication Number: WO 96/09679 (43) International Publication Date: 28 March 1996 (28.03.96)
(21) International Application Number: PCT/US95/11361 (22) International Filing Date: 8 September 1995 (08.09.95) (30) Priority Data: 08/306,120 14 September 1994 (14.09.94) US (71) Applicant: COLEMAN POWERMATE, INC. [US/US]; 125 Airport Road, Kearney, NE 68848 (US). (72) Inventors: SCOTT, Harold, C.; 3433 Thunder Road, Alamogordo, NM 88310 (US). BEDNORZ, Ardel, R.; 1801 Corte del Ranchero, Alamogordo, NM 88310 (US). JOHNSON, G., Weylin; P.O. Box 3561, Alamogordo, NM 88311 (US). ANDERSON, William, J.; 1736 Monte Vista, Alamogordo, NM 88310 (US). DAVIS, Mitchell, K.; P.O. Box, La Luz, NM 88337 (US). TALLY, Henry; 508 Brookdale Avenue, Alamogordo, NM 88310 (US). (74) Agent: LECHTER, Michael, A.; Squire, Sanders & Dempsey, Suite 2700, Two Renaissance Square, 40 North Central Avenue, Phoenix, AZ 85004-4424 (US).		(81) Designated States: AU, BR, CA, CN, JP, KR, MX, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 15 August 1996 (15.08.96)

(54) Title: LIGHT WEIGHT PORTABLE GENERATOR

(57) Abstract

A machine comprising a stator and a rotor (220), where the stator includes at least one winding and the rotor comprises a body of soft magnetic material with a plurality of permanent magnets (802) in a surface (803) disposed proximate to the stator, with intervening consequence poles (806), where the surface area (808) of the permanent magnets (802) is greater than the surface area of the consequence poles (806) proximate to the stator.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US95/11361

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : H02K 5/00

US CL : 322/1 290/1A

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 322/1 290/1A

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, A, 4,827,147 [MIZUSHIMA] 02 MAY 1989	1-107
Y	US, A, 4,835,405 [CLANCEY ET AL.] 30 MAY 1989	1-107
Y	US, A, 4,647,835 [FUJIKAWA ET AL.] 03 MARCH 1987	1-107
Y	US, A, 4,608,946 [TANAKA ET AL.] 02 SEPTEMBER 1986	1-107
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Date of the actual completion of the international search

08 FEBRUARY 1996

Date of mailing of the international search report

04 MAR 1996

Name and mailing address of the ISA/US
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International application No.
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US, A, 3,694,661 [MINOWA] 26 SEPTEMBER 1972	1-107