

12

EUROPEAN PATENT APPLICATION

21 Application number: 83103269.3

22 Date of filing: 02.04.83

51 Int. Cl.³: **H 01 F 1/22**
C 22 C 33/00, C 22 C 38/52
H 01 F 1/06

30 Priority: 15.04.82 US 368612

43 Date of publication of application:
 26.10.83 Bulletin 83/43

88 Date of deferred publication of search report: 07.03.84

84 Designated Contracting States:
 DE FR GB IT NL

71 Applicant: **ALLIED CORPORATION**
 Columbia Road and Park Avenue P.O. Box 2245R (Law
 Dept.)
 Morristown New Jersey 07960(US)

72 Inventor: **Datta, Amitava**
 127 Park Avenue
 Madison New Jersey 07940(US)

72 Inventor: **Nathasingh, Davidson M.**
 9 River Road
 Stanhope New Jersey 07874(US)

74 Representative: **Weber, Dieter, Dr. et al,**
 Willrath Weber und Seiffert Postfach 6145
 Gustav-Freytag-Strasse 25
 D-6200 Wiesbaden 1(DE)

64 **Manufacture of powder cores for electromagnetic apparatus.**

57 Ferromagnetic glassy metal powder is compacted with static pressure of 69 to 690 MPa at a temperature in the vicinity of the glass transition temperature and below the crystallization temperature thereof to form a consolidated, magnetic glassy metal alloy body. The resulting compacts can be annealed to enhance ferromagnetic properties. Consolidated bodies exhibit low core loss and permeabilities which remain constant over a wide frequency range.

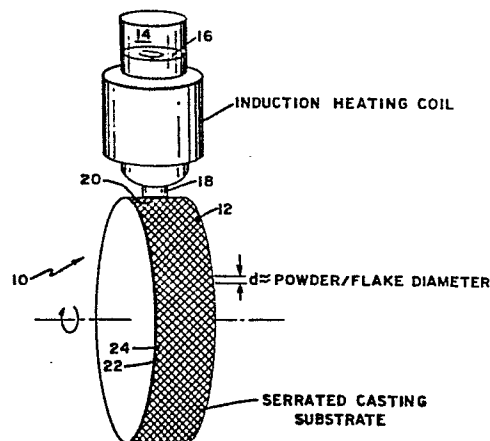


FIG. 1



European Patent
Office

EUROPEAN SEARCH REPORT

0092091

Application number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 83103269.3
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
A	<u>EP - A1 - 0 035 644</u> (ALLIED CHEMICAL) * Page 4, line 8 - page 5, line 13; page 6, line 8 - page 8, line 21 * --	1-8	H 01 F 1/22 C 22 C 33/00 C 22 C 38/52 H 01 F 1/06
A	<u>DE - A1 - 2 628 207</u> (DRALORIC) * Claims 7-9; page 6, paragraph 3 - page 7, paragraph 2 * --	1,5-7	
A	<u>US - A - 4 116 728</u> (BECKER) * Column 4, line 43 - column 7, line 20; fig. 1-6 * --	1,8	
A	<u>EP - A1 - 0 035 037</u> (SUMITOMO) * Page 12, paragraph 3 - page 15, paragraph 2; fig. 1-4 * --	9,10	TECHNICAL FIELDS SEARCHED (Int. Cl. 3) B 22 D 11/00
A,D	<u>US - A - 4 142 571</u> (NARASIMHAN) * Column 4, line 61 - column 5, line 52; column 7, line 23 - column 8, line 14; fig. 1-3 * --	9,10	B 22 F 3/00 B 41 C 1/00 C 21 D 1/00 C 22 C 1/00 C 22 C 33/00 C 22 C 38/00 H 01 F 1/00
A,D	<u>US - A - 3 856 513</u> (CHEN) * Column 2, line 58 - column 6, line 39 * --		
A,D	<u>US - A - 3 856 553</u> (HAYASHI) -----		
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 01-12-1983	Examiner PIRKER
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			