

가 가 Fe

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Development of the Fe-Base Sintered Material with Containing Solid Lubricant for High Speed Feeding

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Key words : Sintered, Fe, Material, oil, Feeding, High, Speed

1. 가

2.

Table 1 Experimental condition

	(wt%)											
	Cu	Ni	Ti	Si	Al	Co	Cr	Mn	Fe			
1	12	4	0.2	0.3	0.6	4	3	4	bal.	0.09	190	
2	20	3	0.2	0.3	0.6	3	3	3	bal.	1.1	220	
3	28	2	0.2	0.3	0.6	2	1	1	bal.	1.8	240	

	(wt%)								
	Cu	Ni		Co	Cr	Mn	W	Mo	Fe
1	12	3		4	3	4	4	4	bal.
2	20	2		3	3	3	3	4	bal.
3	28	1		2	1	1	3	3	bal.

Table 2 Experimental condition, wear and friction coefficient

		(60wt%) +MoS ₂ (40wt%)				
					100hr	1500hr
	1	30vol%	○	3	0.03	0.031
	2	42vol%	○	3	0.03	0.031
	3	55vol%	○	3	0.03	0.031
	1	50vol%	○	5	0.032	0.033
	2	70vol%	○	5	0.03	0.033
	3	80vol%	○	5	0.04	0.1
	1	100vol%	○	5	0.03	0.1
	2	100vol%	×	7	0.04	0.2
	3	60vol%	×	7	0.036	0.039
	1	30vol%	○	5	0.07	0.072
	2	60vol%	○	6	0.029	0.029
	3	60vol%	×	7	0.036	0.039
	1	70vol%	○	4	0.030	0.031
	1	40vol%	○	4	0.05	0.092
	2	50vol%	○	5	0.039	0.091
	3	80vol%	○	4	0.04	0.11
	1	-	○	10	0.16	0.19
	2	-	×	11	0.35	0.39

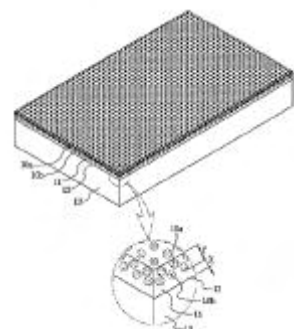


Fig. 1

Table 1 Table 2
. Fig. 1

(10a, 10b)
Fig. 2a- 2e Fig. 1

, Fig. 3

(graphite), (10a, 10b)
(MoS₂)
60:40wt%
% 가

Table 2

(14) (17) 가
Fig. 2a 3e
가 (13)
(15) (14) (16) (13)

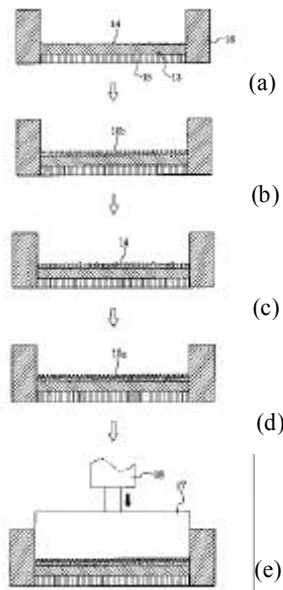


Fig. 2

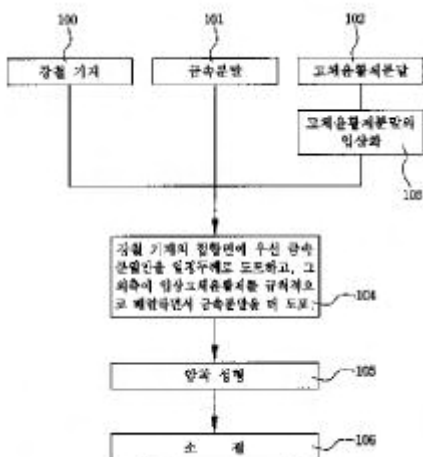


Fig. 3

(10a, 10b) (13), (14),
(15), (15), (16), (15), Fig. 2a
(13) (X) (14)
(14) 3b (X) (14)
(14) (10b) (10b)
(14) (10b)가
가 (14)
(10b) (10b)
(Y) (14) (3c),
(13) (10a) (14)
(14) (10a, 10b)
(14) (104)
(10a, 10b)
(14) (14) (10a, 10b)
가 가
(14) (10a, 10b)
05), (14) (10a, 10b) (1)

3.

Table 2
1500hr

100hr

가 (X) (12)

Table 1

190-240 (X) (微粉化)

1-3 가 (X)

(11) (X) (13)

(14) (X) (X)
가 (X)

(14) Ni, Ti, Si Al 가 (1)

(13) (X)

2) 190-240 가 Table

1 1-3 가 (Y)

W Mo 가 가 (Y)

4.

가

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2004044670000, 2005.

2. 2 ,
2004044840000, 2005.

3. 2 ,
2004044830000, 2005.