

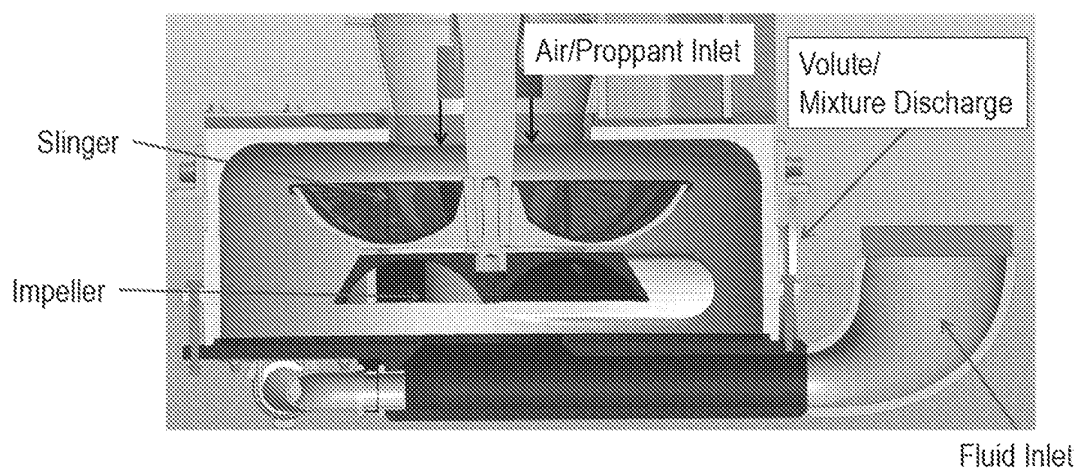
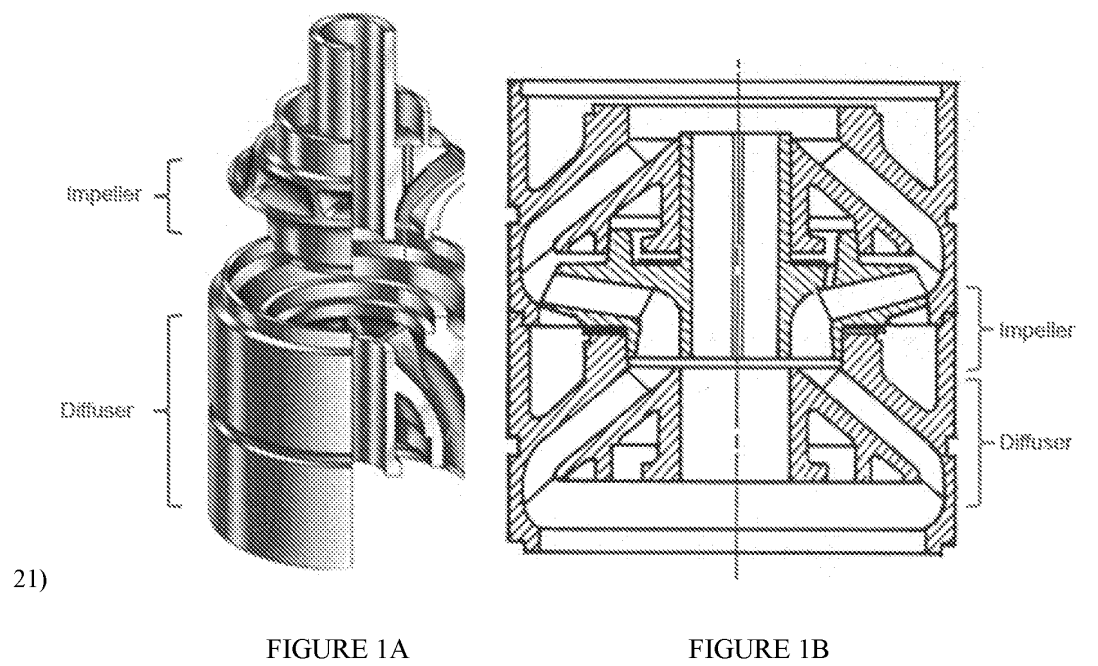


FIGURE 2

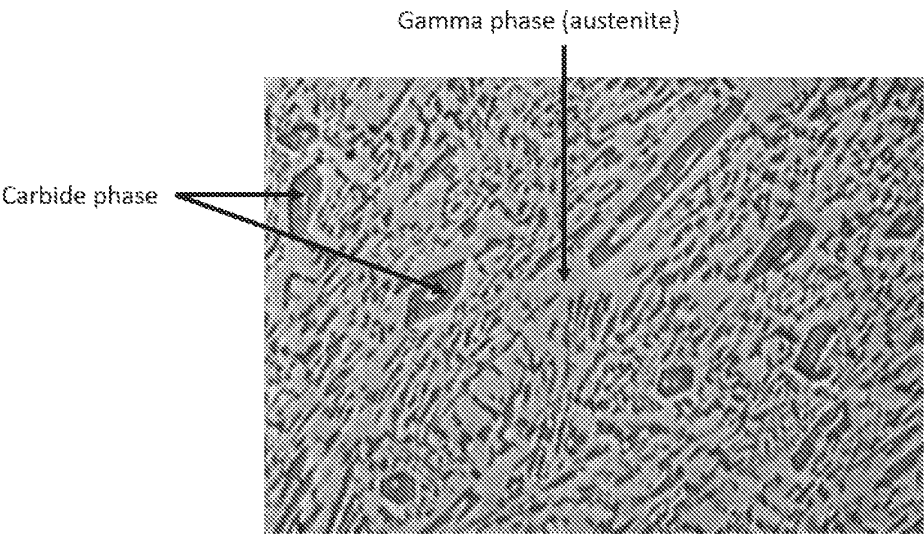


FIGURE 3

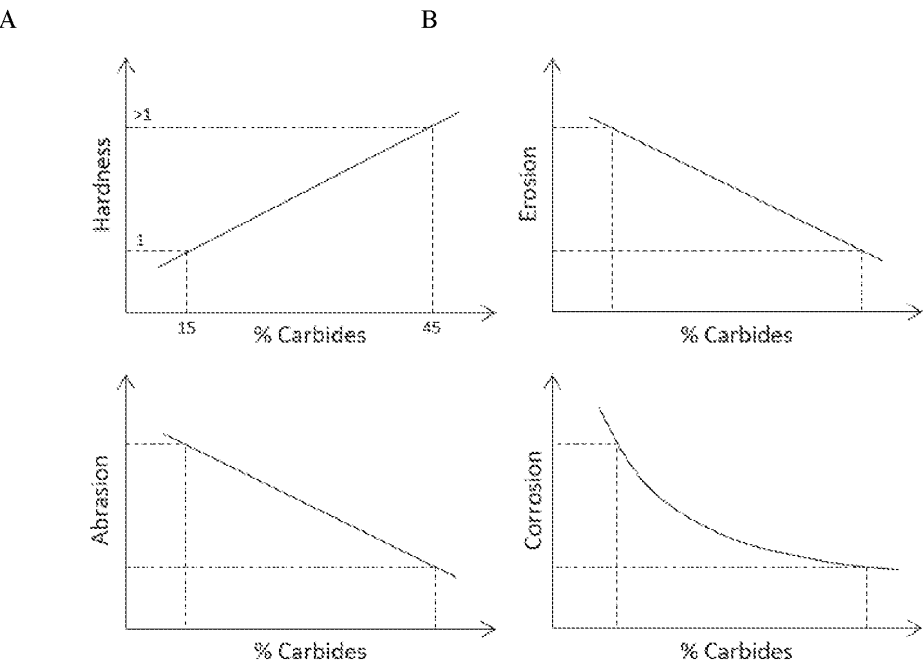


FIGURE 4

FIGURE 5: List of inventive alloys (by weight percent, Fe as balance element).

#	Cr	Ni	C	Al	Mo	Others	% Carbides	%Cr in Binder (550°C)	%Ni in Binder (550°C)	T _{ferrite} (°C)
1	40.00	35.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.0	19.5	51.2	578.0
2	40.00	30.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.0	17.6	45.2	616.8
3	40.00	25.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.0	16.9	38.3	645.8
4	40.00	20.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.1	16.5	31.0	669.4
5	35.00	35.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.1	13.3	51.0	226.3
6	35.00	30.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.1	13.5	43.8	313.5
7	35.00	25.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.1	13.6	36.5	386.4
8	35.00	20.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.1	13.8	29.2	449.4
9	30.00	30.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.2	8.3	43.5	345.5
10	30.00	25.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.2	8.4	36.3	408.8
11	30.00	20.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.2	8.6	29.1	466.9
12	25.00	25.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	31.1	5.0	35.5	431.7
13	25.00	20.00	1.75	0.00	2.50	Mn=0.5; Si=0.5	32.4	4.7	28.8	484.4
14	35.00	30.00	1.50	1.00	2.50	Mn=0.5; Si=0.5	27.6	14.6	42.8	628.9
15	35.00	30.00	1.75	1.00	2.50	Mn=0.5; Si=0.5	32.1	13.0	43.9	342.7
16	35.00	30.00	2.00	1.00	2.50	Mn=0.5; Si=0.5	36.5	9.2	46.7	333.3
17	35.00	30.00	2.25	1.00	2.50	Mn=0.5; Si=0.5	41.1	6.0	49.8	344.7
18	35.00	30.00	2.50	1.00	2.50	Mn=0.5; Si=0.5	41.6	5.3	50.2	360.6
19	37.50	25.00	1.85	1.50	2.75	Mn=0.5; Si=0.5	33.9	13.0	38.6	607.3
20	37.50	25.00	1.85	1.50	2.50	Mn=0.5; Si=0.5	33.8	13.0	38.5	601.2
21	37.50	25.00	1.85	1.50	2.25	Mn=0.5; Si=0.5	33.7	13.0	38.3	595.0
22	37.50	25.00	1.85	1.50	2.00	Mn=0.5; Si=0.5	33.5	14.1	37.5	427.5
23	37.50	25.00	1.85	1.50	1.75	Mn=0.5; Si=0.5	33.5	13.9	37.4	425.4
24	38.75	22.50	1.93	0.75	2.25	Mn=0.5; Si=0.5	35.1	15.1	34.5	426.0
25	38.75	26.50	1.93	0.75	2.25	Mn=0.5; Si=0.5	35.1	14.9	43.4	366.5
25	42.50	25.00	2.00	0.50	2.75	Mn=0.5; Si=0.5	36.6	15.4	41.4	670.2
25	42.50	25.00	2.50	0.50	2.75	Mn=0.5; Si=0.5	45.4	10.4	45.2	336.0

SLB: IS20.2058-US-PSP

FIGURE 5: List of inventive alloys (by weight percent, Fe as balance element).								
#	Cr	Ni	C	Al	Mo	Others	% Carbides	T _{ferrite} (°C)
MIN	25.00	20.00	1.50	0.00	1.75		27.6	226.3
MAX	42.50	35.00	2.50	1.50	2.75		45.4	670.2

FIGURE 6: Additional inventive alloys with minor changes in Si, Al, Mo, Ti, Nb, Ta and Cu contents (by weight percent, Fe as balance element).								
#	Cr	Ni	C	Mn	Si	Others	% Carbides	T _{ferrite} (°C)
26	35.00	25.00	1.50	0.00	0.00	Al=1 Mo=2.25	29.9	618.1
27	35.00	25.00	1.50	2	0	Al=1 Mo=2.25	30.7	643.9
28	35.00	25.00	1.50	0	2	Al=1 Mo=2.25	27.7	670.0
29	35.00	25.00	1.50	1	1	Al=1 Mo=2.25	27.5	644.8
30	35.00	25.00	1.50	2	2	Al=1 Mo=2.25	27.8	700.3
31	35.00	25.00	1.50	2.0	1	Al=1 Mo=1.75 Ti = 0.25 Nb = 0.25	25.9	702.9
32	35.00	25.00	1.50	2.0	1	Al=1 Mo=1.75 Ti = 0.25 Ta = 0.25	26.2	695.2
29b	35.00	25.00	1.50	1	1	Al=1 Mo=2.25 Cu = 0.5	27.5	669.8
29c	35.00	25.00	1.50	1	1	Al=1 Mo=2.25 Cu = 1.0	27.5	683.5

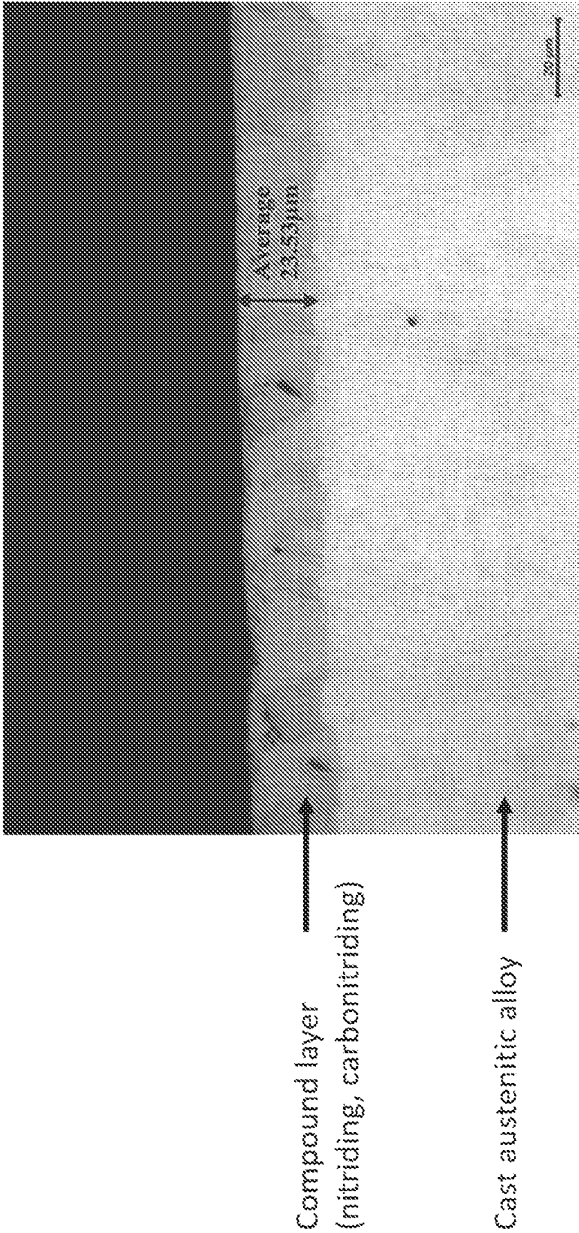


FIGURE 7

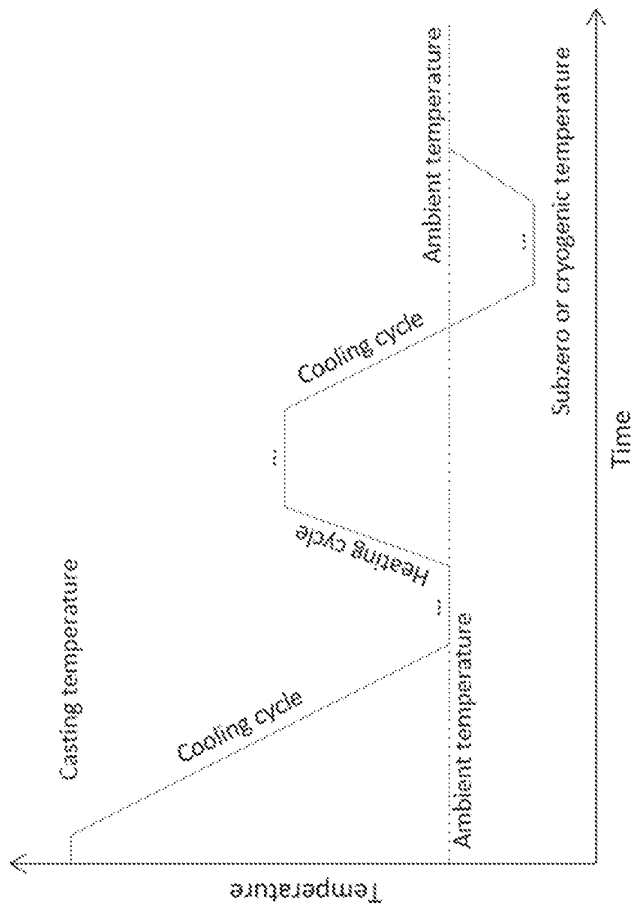


FIGURE 8