

1	POWDER METALLURGY PROCESSES WITH HEATING OR SINTERING	43	..Rolling
2	.Making porous product	44	.Pretreatment of consolidated powders
3	.Making articles of indefinite length	45	.Sintering which includes a chemical reaction
4	..Filaments or fibers	46	.Alloying occurs during sintering
5	.Making composite or hollow article	47	.Liquid phase sintering
6	..Powder next to powder	48	.Heat and pressure simultaneously to effect sintering
7	...One or more components not compacted	49	..Hot isostatic pressing (HIP)
8	..Powder next to solid	50	..Hot rolling
9	...Powder not compacted	51	..Multiaxial (Not HIP)
10	.Metal and nonmetal in final product	52	..Heating by electrical means other than radiant energy
11	..Nonmetal is elemental carbon	53	.Plural heating steps including sintering
12	..Boride containing	54	..Different temperatures
13	..Nitride containing	55	..Additional operation between heating steps
14	..Carbide containing	56	.Special medium during sintering
15	...Complex or multiple carbides	57	..Special atmosphere
16	...With another binary nonmetal	58	...Hydrogen or hydrogen plus nitrogen (Nitrogen per se in 57)
17	...Single carbide	59	...Hydrocarbon or derivative (e.g., CH ₄ , etc.)
18	...Tungsten carbide	60	...Vacuum
19	..Oxide containing	61	FORMING ARTICLES BY UNITING RANDOMLY ASSOCIATED METAL PARTICLES
20	..Rare earth oxide	62	.Powder pretreatment
21	...Silver metal with metal oxide	63	..Includes a chemical reaction
22	...Copper oxide	64	..Includes coating of particles
23	.Powder shape or size characteristics	65	..Includes adding a binder material
24	..Filaments or fibers	66	.Consolidation of powders
25	.Controlled cooling after sintering	67	..Extrusion
26	.Post sintering operation	68	..Isostatic/Hydrostatic pressing
27	..Impregnation	69	..Rolling
28	..Subsequent working		
29	..Subsequent heat treatment (e.g., annealing, etc.)		
30	.Powder pretreatment (prior to consolidation or sintering)		
31	..Heat treatment of powder		
32	..Mechanical blending		
33	..Comminuting		
34	..Chemical blending		
35	..Coating		
36	..Addition of fugitive material		
37	...Additional material is solid		
38	.Consolidation of powder prior to sintering		
39	..Specific pressure or lack or pressure recited		
40	...Slip or slurry		
41	..Extruding		
42	..Isostatic or Hydrostatic		
			<u>FOREIGN ART COLLECTIONS</u>
		FOR	CLASS-RELATED FOREIGN DOCUMENTS

