

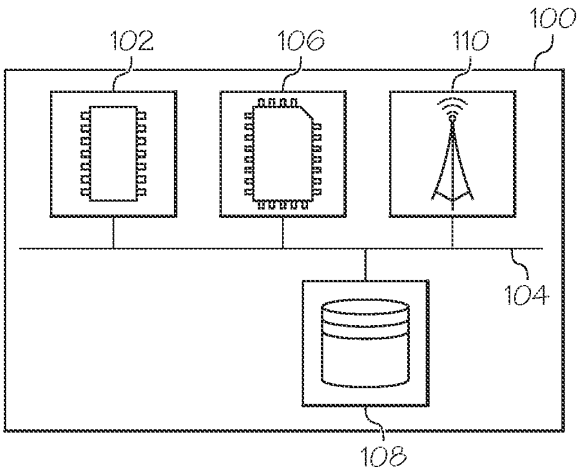


FIG. 1

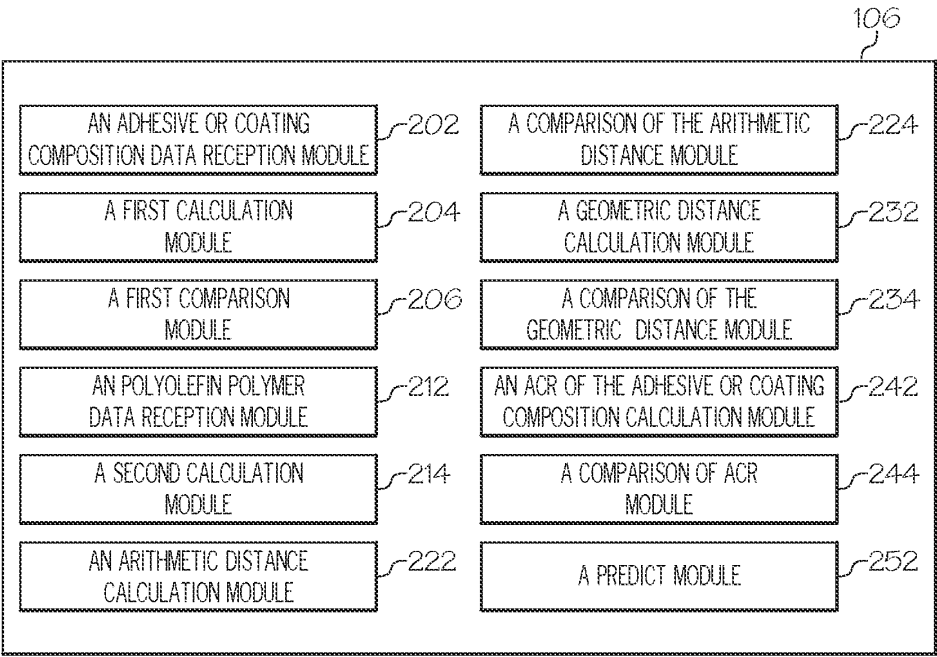


FIG. 2

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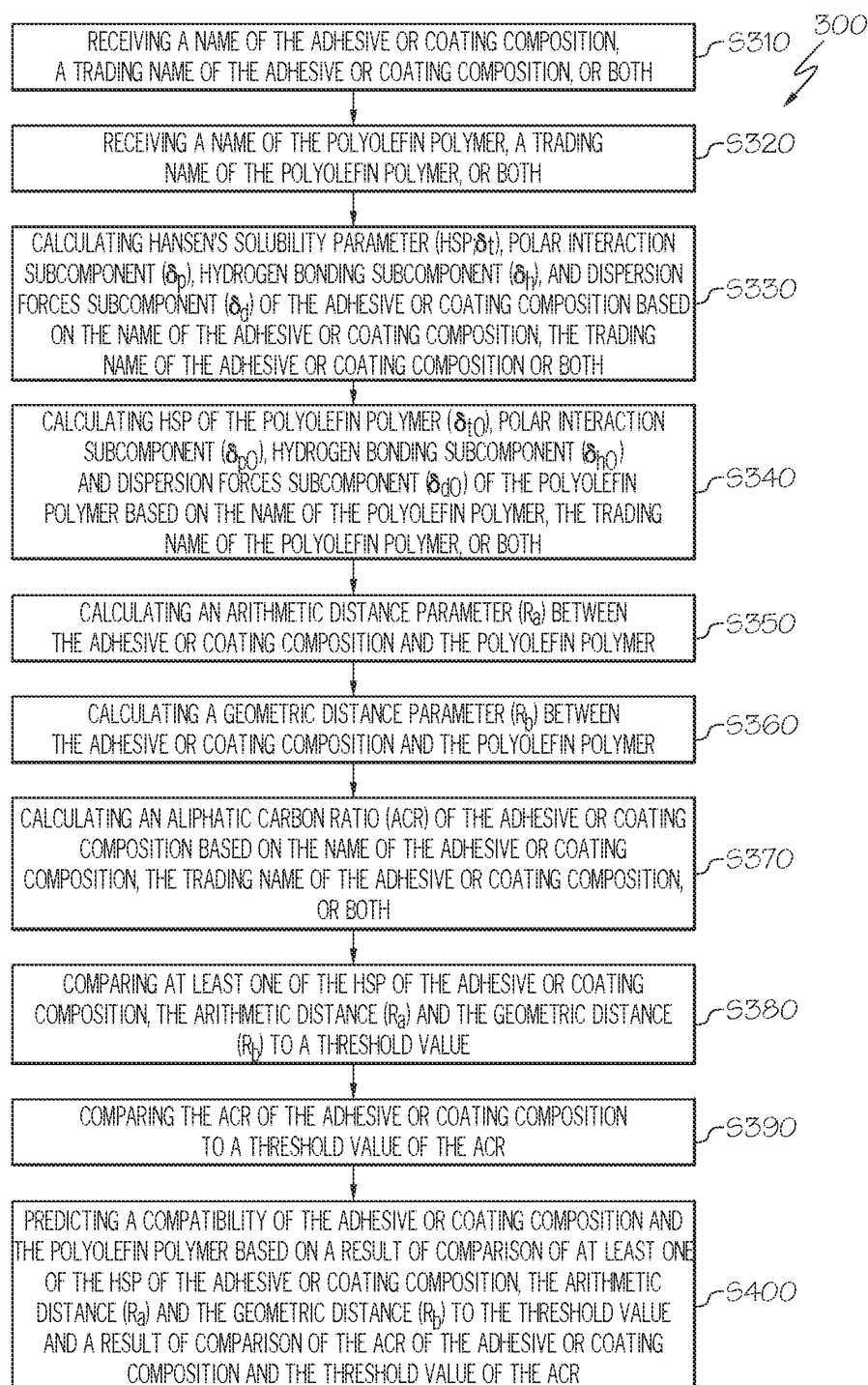


FIG. 3

TABLE 7.12 Values of increments in Hoy's System (1985), for the molar attraction function

Groups	$F_{t,1}$ (MJ/m ³) ^{1/2} (mol)	$F_{p,1}$	V_1 (cm ³ /mol)	$\Delta T_{f,1}^*$	$\Delta T_{f,1}^*(P)$	Groups	$F_{t,1}$ (MJ/m ³) ^{1/2} (mol)	$F_{p,1}$	V_1 (cm ³ /mol)	$\Delta T_{f,1}^*$	$\Delta T_{f,1}^*(P)$
-CH ₃	303.5	0	21.55	0.023	0.022	-OH → (H bonded)	485	485	10.65	0.082	0.034
-CH ₂ -	269.0	0	15.55	0.020	0.020	-OH	675	675	12.45	0.082	0.049
CH-	176.0	0	9.56	0.012	0.013	prim.	591	591	12.45	0.082	0.049
>C=CH=CH-	65.5	0	3.56	0	0.040	second	(500)	(500)	12.45	0.082	0.049
=CH<	259	67	19.17	0.018	0.019	tert.	350	350	12.45	0.031	0.006
	249	59.5	13.18	0.018	0.0185	phenolic	216	216	6.45	0.021	0.018
	173	63	7.18	0	0.013	ether	102	102	6.45	0.018	0.018
CH ₂ ar	241	62.5	13.42	0.011	0.018	acetal	156	156	6.45	0.027	0.027
C ₂ ar	201	65	7.42	0.011	0.015	epoxide	464	464	17.0	0.031	0.035
						-NH ₂	368	358	11.0	0.031	0.0275
-HC=O	600	532	23.3	0.048	0.045	-NH-	125	125	12.6	0.014	0.009
>C=O	538	525	17.3	0.040	0.040	>N-					
-COOH	565	415	26.1	0.039	0.039						
-COO-	640	528	23.7	0.047	0.050						
-CO-O-CO-	1160	1160	41.0	0.086	0.086	-S-	428	428	18.0	0.015	0.032
-C=N	725	725	23.1	0.060	0.054	-F-	845	73.5	11.2	0.018	0.006
-N-C=O HCON<	736	8.2	25.9	0.054	0.054	-Cl	419.5	307	19.5	0.017	0.031
	1020	725	35.8	0.062	0.055	prim.	426	315	19.5	0.017	0.032
-CONH ₂	1200	900	34.3	0.071	0.084	second.	330	81.5	19.5	0.017	0.025
-CONH-	1131	895	28.3	0.054	0.073	arom.	705	572	39.0	0.034	0.052
-OCONH-	1265	890	34.8	0.078	0.094	twinned	528	123	25.3	0.010	0.039
						<Cl> ₂	422	100	25.3	0.010	0.031
						-Br					

FIG. 4