

FIG. 1

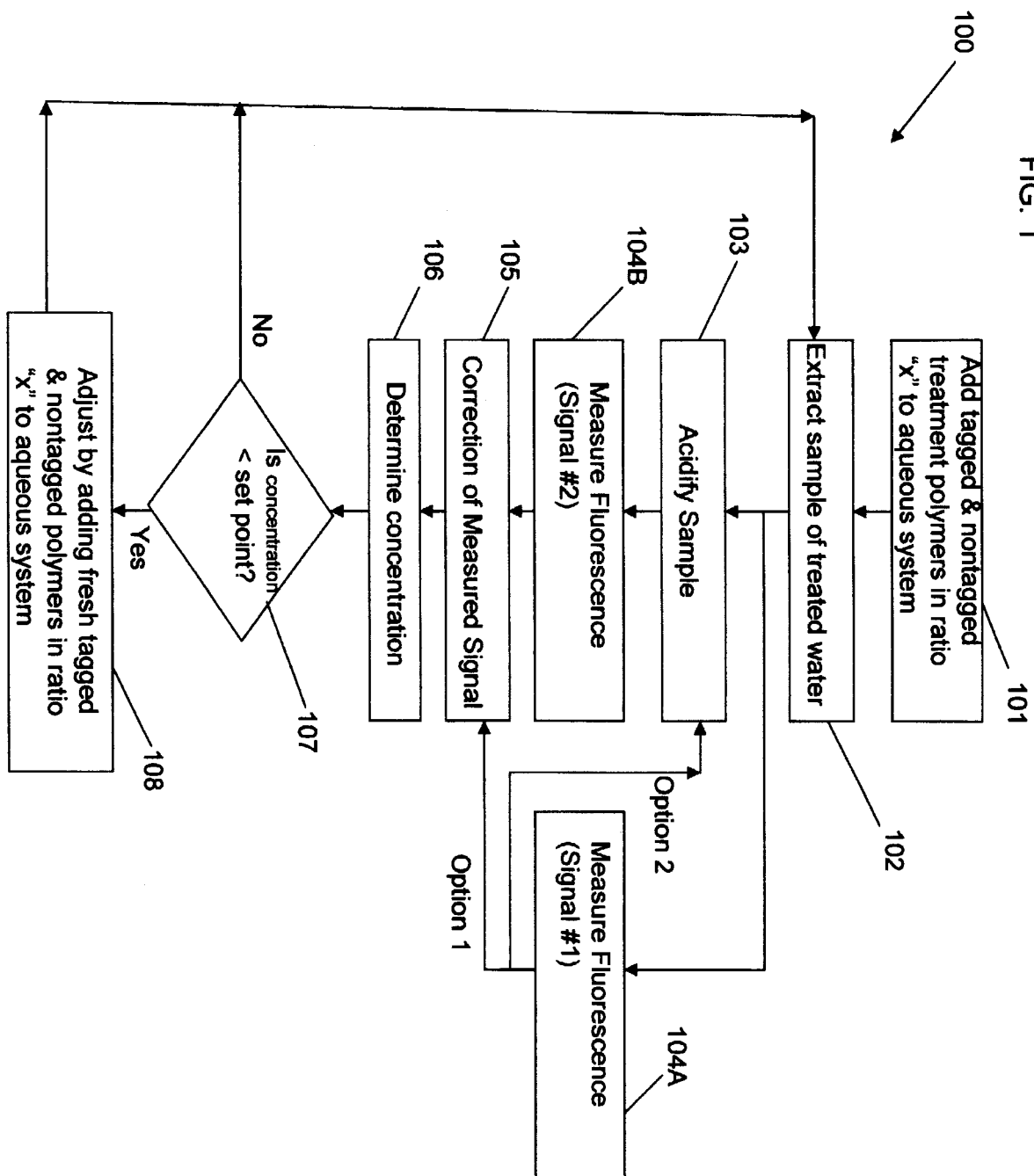
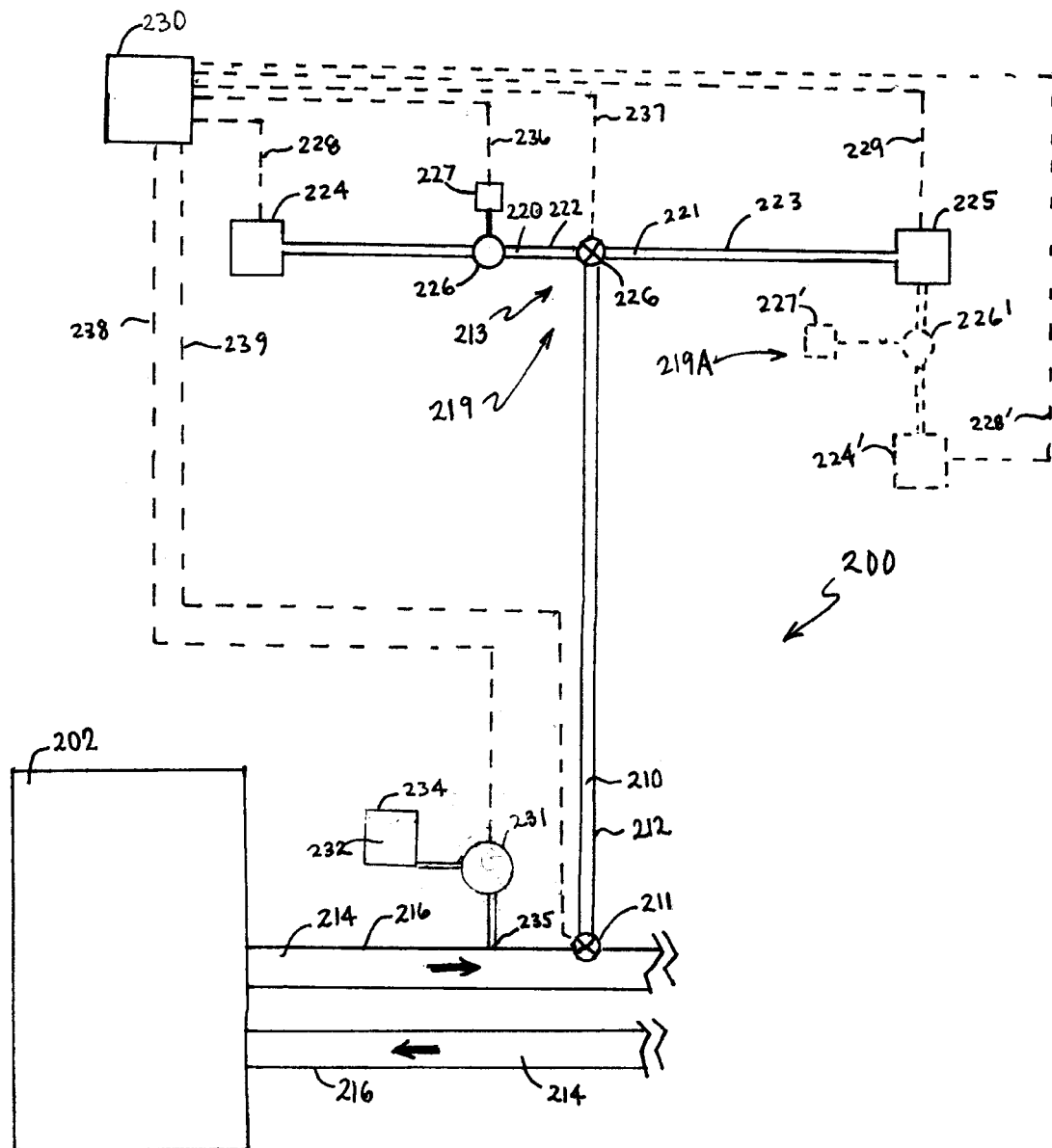


FIG. 2



3/4

FIG. 3

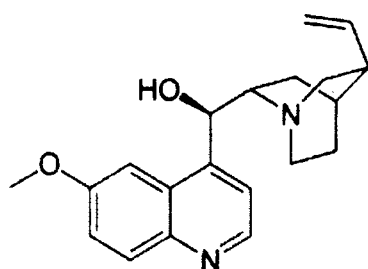
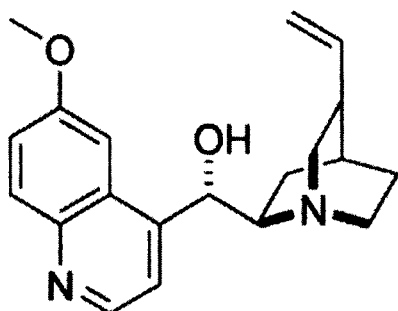
Quinine**Quinidine**

FIG. 4

Table 1

Tagged Polymer (ppm)	0.05 H ₂ SO ₄ (pH 1.86)					Cooling Tower pH (1.86)					150 ppm CT			500 ppm CT		
	Run	Day 1	Day 2	Day 5		Day 1	Day 2	Day 5		Day 1	Day 2	Day 5	Day 1	Day 2	Day 5	
Run 1																
1 ppm	16.5	11.2	11.1	19.3	13.4	12.9	10.3	10.7	11.1	7.9	7.8	8.2				
5 ppm	68.6	48.3	46.2	69.7	48.6	55	34.3	35.1	50.1	20.4	19.7	21.2				
10 ppm	132	92.1	90.2	128.2	89.3	90.1	63.2	63.8	63.5	35.4	34.7	35.7				
20 ppm	off scale	off scale	off scale	off scale	off scale	off scale	114.8	116.3	114	63.7	62.7	57.5				
Run 2																
1 ppm	11.2	11.8	11.5	16.6	15.7	16.7	13.5	13.7	13.2	9.1	9.1	9.5				
5 ppm	50.5	50.1	49.5	51.6	51.6	52.5	39.0	39.6	34.9	24.3	24.0	24.6				
10 ppm	95.3	94.1	94.7	92.0	90.8	92.8	67.1	67.5	71.5	42.7	41.8	43.4				
20 ppm	off scale	off scale	off scale	off scale	off scale	off scale	124.6	-	-	76.7	76.2	78.3				
Run 3																
1 ppm	12.2	11.4	11.5	16.1	18.5	16.5	12.3	13.5	-	9.5	9.1	9.6				
5 ppm	50.9	51.2	50.3	52.7	53.9	53.2	37.8	38.9	-	23.6	23.5	24.8				
10 ppm	96.4	95.2	95.6	91.0	90.9	91.6	66.8	70.8	-	40.9	40.4	46.0				
20 ppm	off scale	off scale	off scale	off scale	off scale	off scale	123.8	124.8	-	73.8	72.9	82.6				
Run 4																
1 ppm	13.8	13.4	13.4	18.0	19.0	18.9	14.3	16.4	-	9.5	10.1	9.6				
5 ppm	55.0	54.5	54.4	58.1	56.1	57.3	42.4	42.1	-	24.4	24.9	24.8				
10 ppm	106.3	106.3	101.4	104.3	103.9	105.1	77.6	78.4	78.3	45.4	44.4	46.0				
20 ppm	off scale	off scale	off scale	off scale	off scale	off scale	off scale	off scale	off scale	82.5	81.2	82.6				