

Fig. 1a

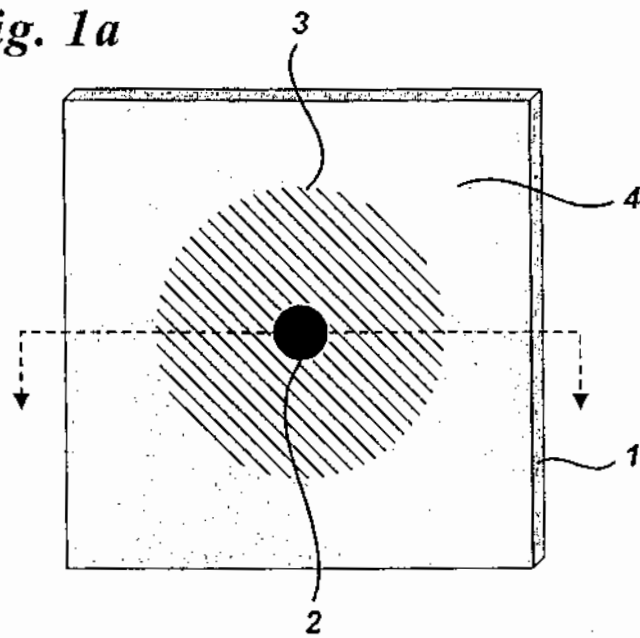


Fig. 1b

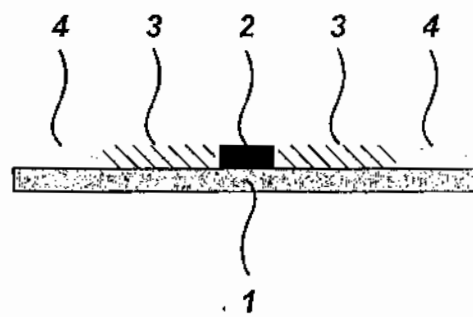


Fig. 2

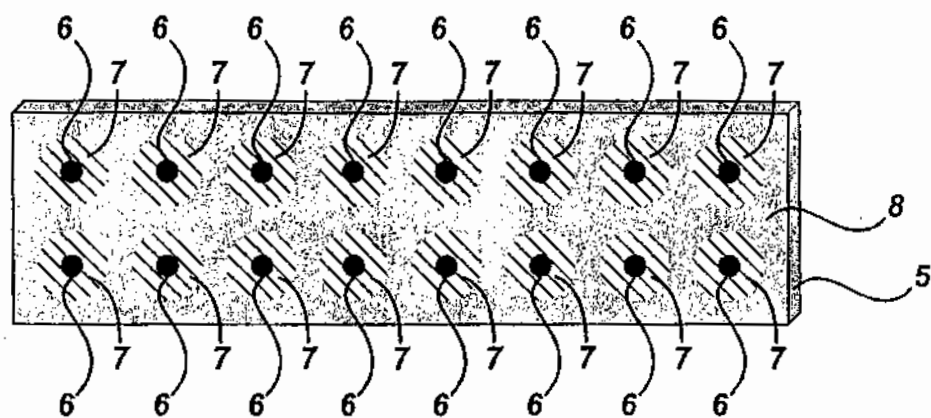


Fig. 3

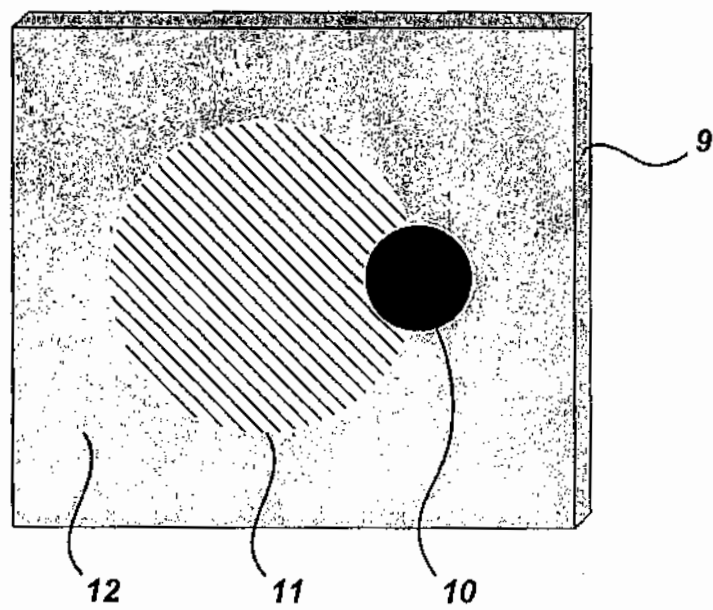


Fig. 4a

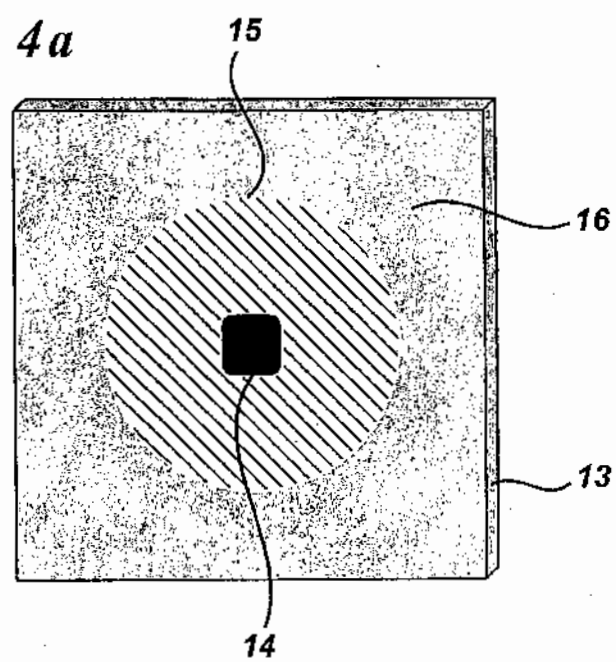


Fig. 4b

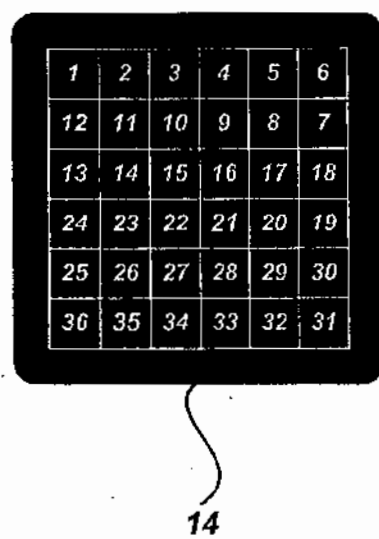


Fig. 5

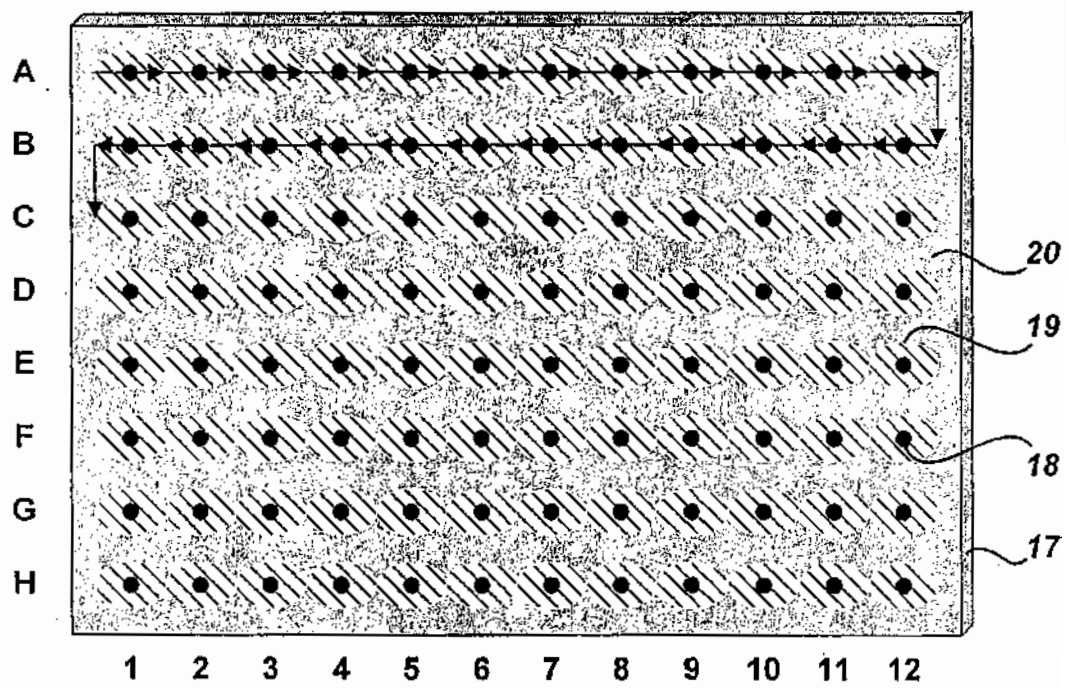
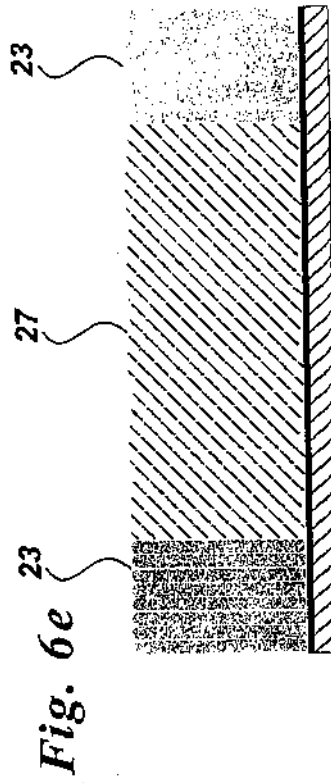
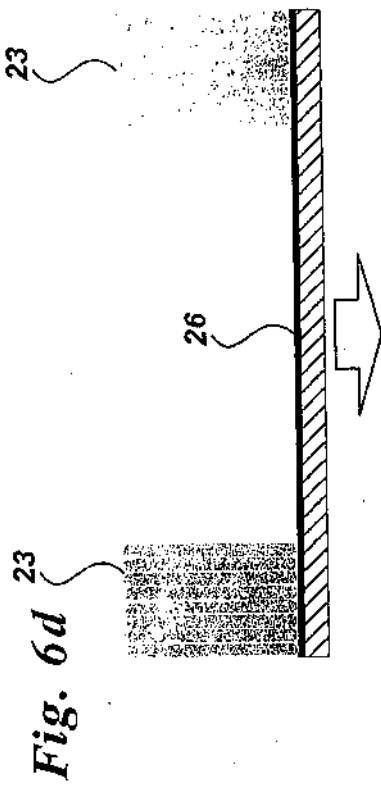
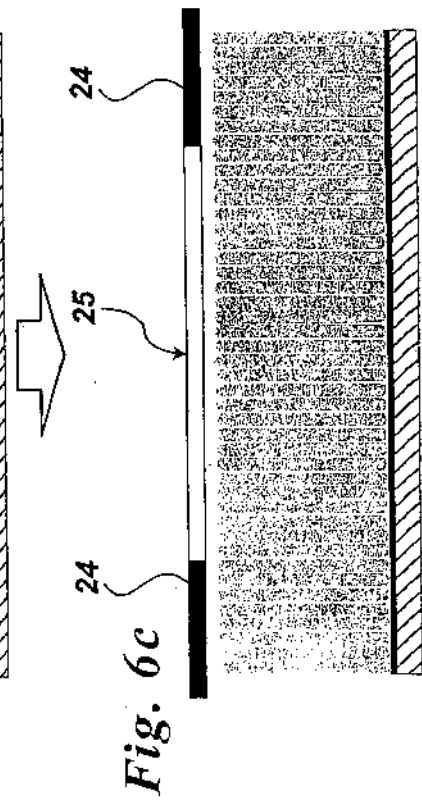
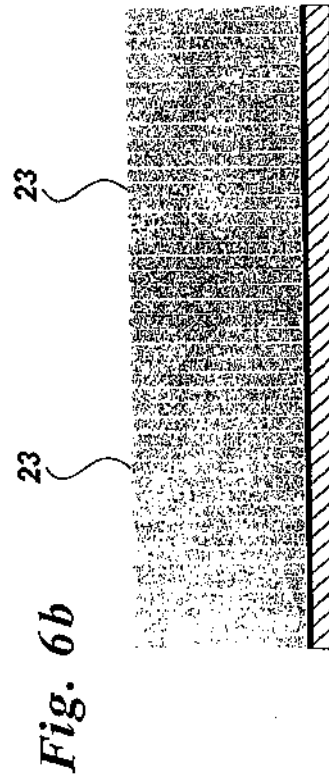
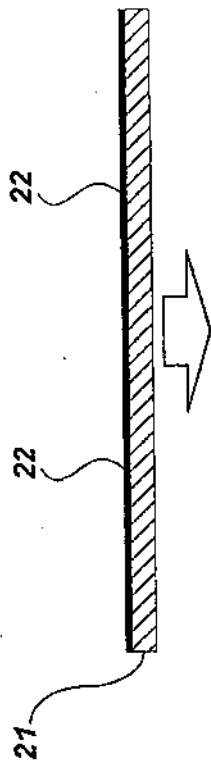


Fig. 6a
Alkylthiol on Gold
UV-Photopatterning Approach



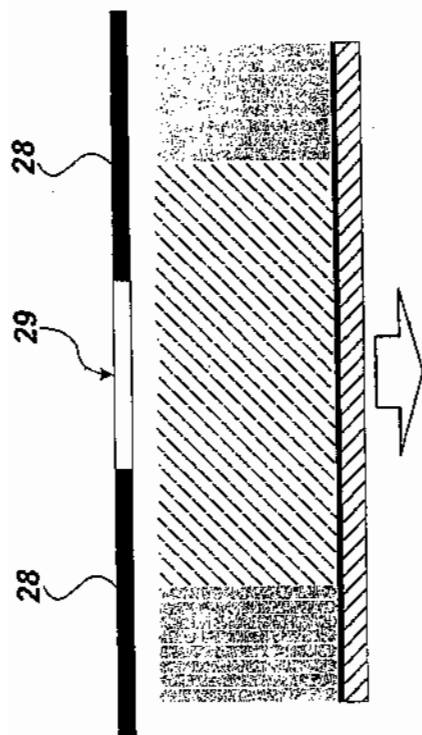


Fig. 6f

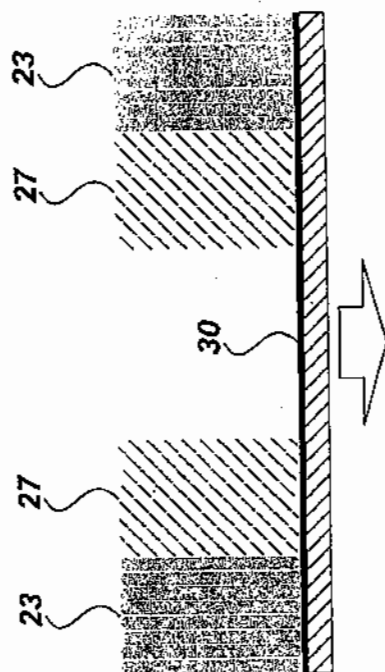


Fig. 6g

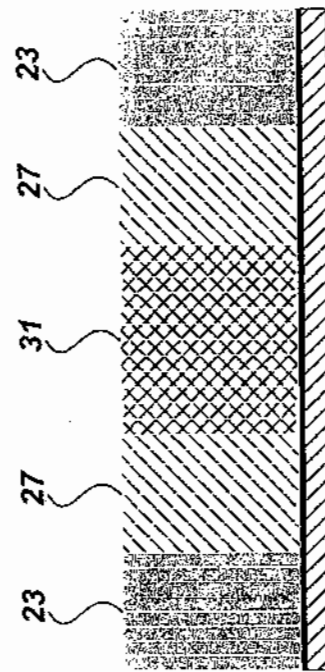


Fig. 6h

Fig. 7a
Alkylthiol on Gold
Lithographic Approach

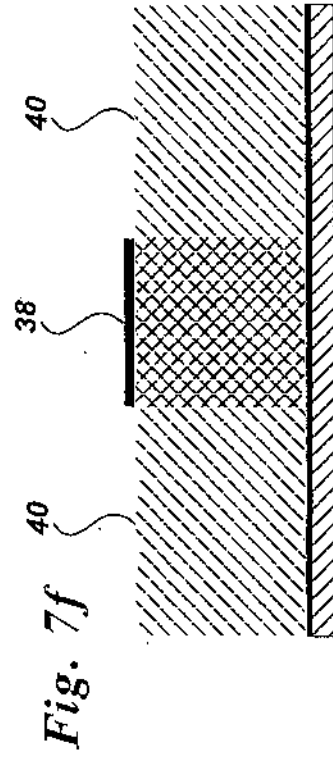
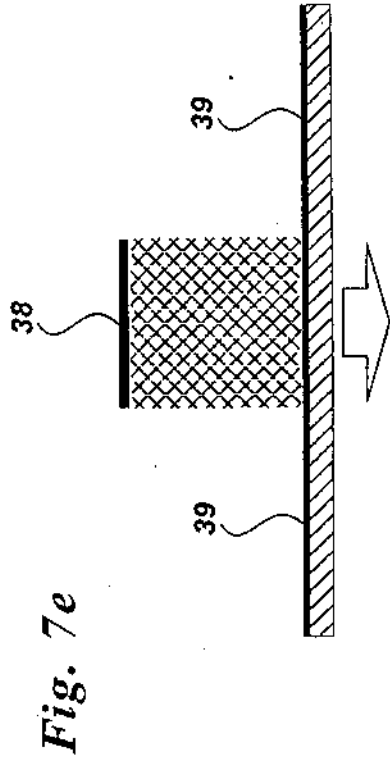
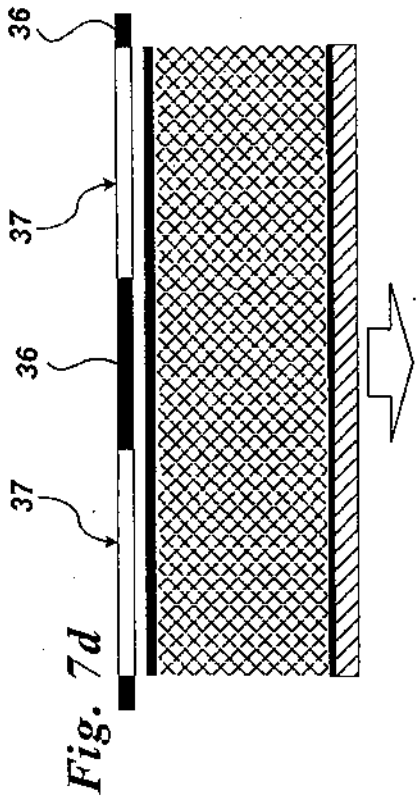
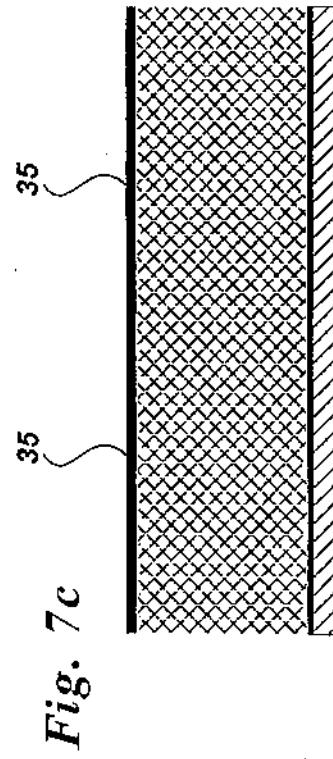
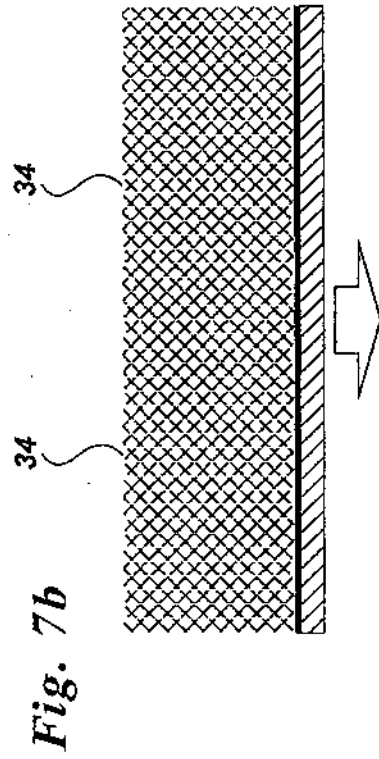
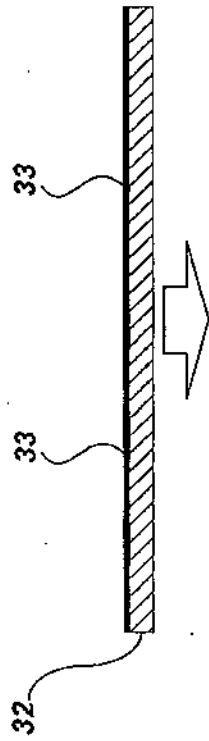


Fig. 7g

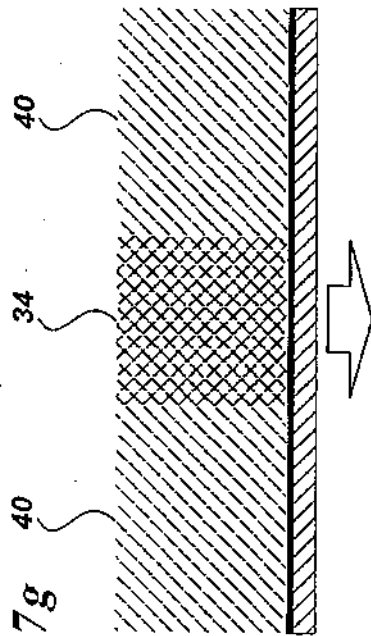


Fig. 7j

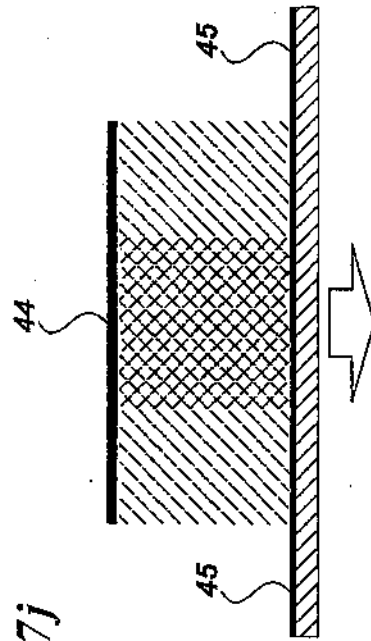


Fig. 7h

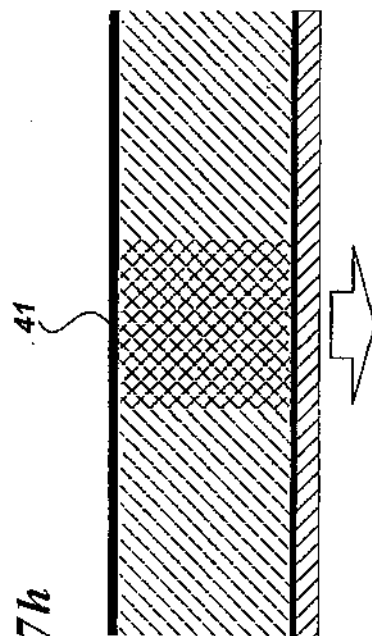


Fig. 7k

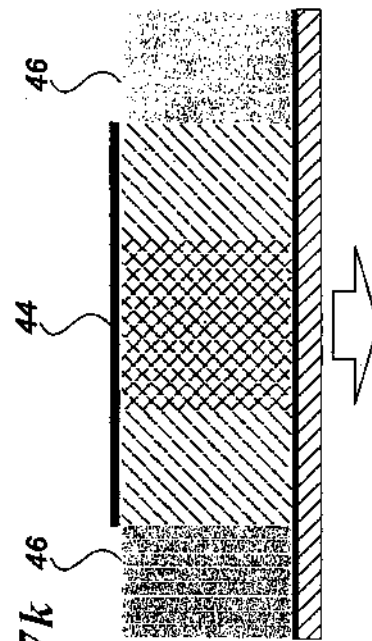


Fig. 7i

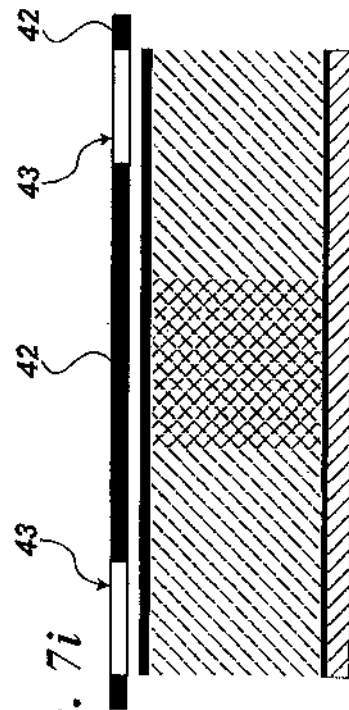


Fig. 7l

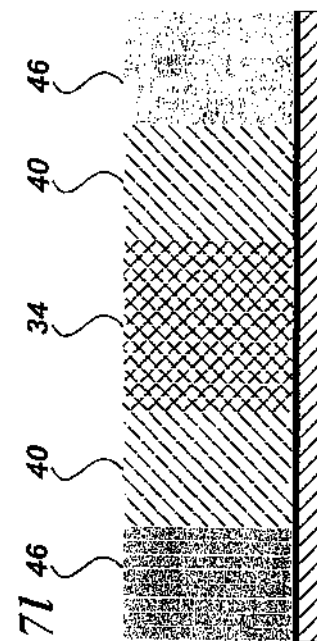
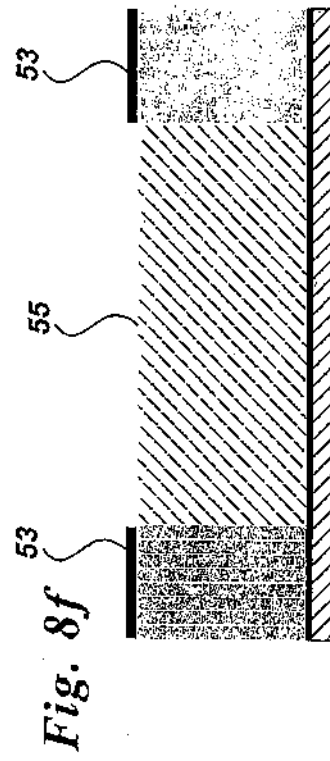
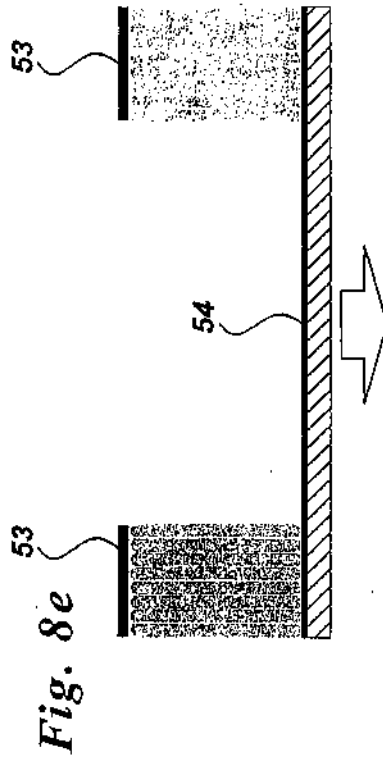
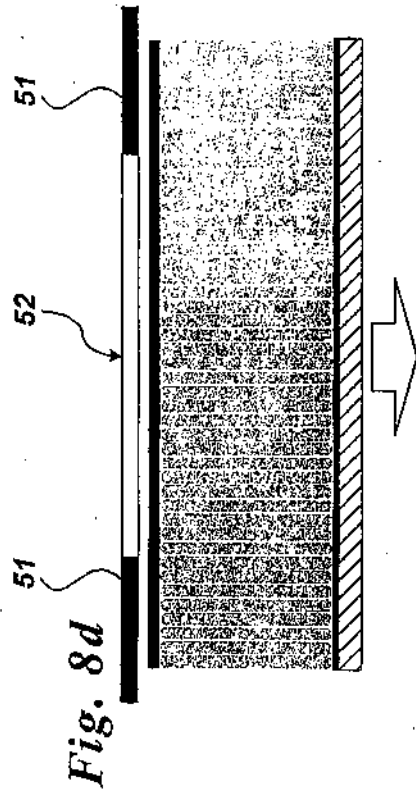
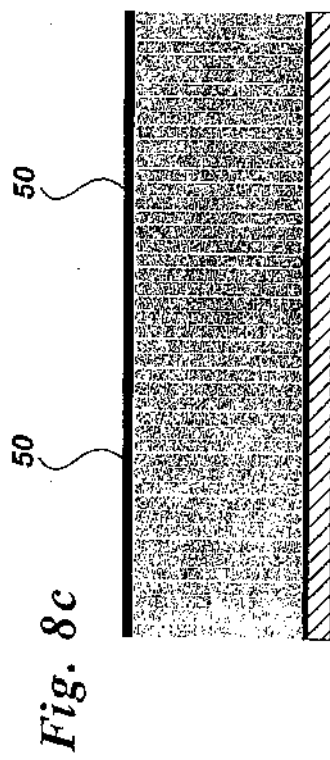
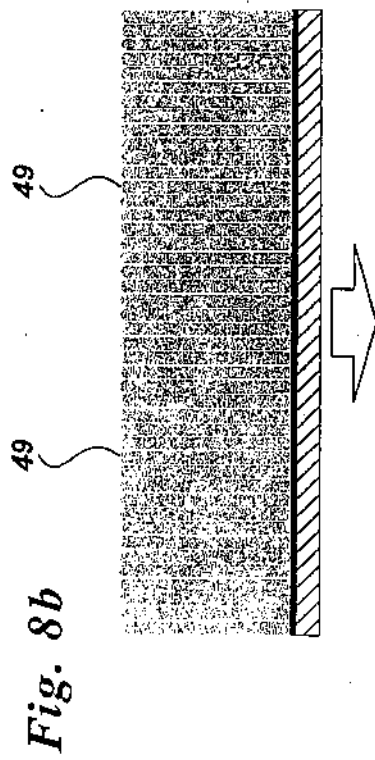
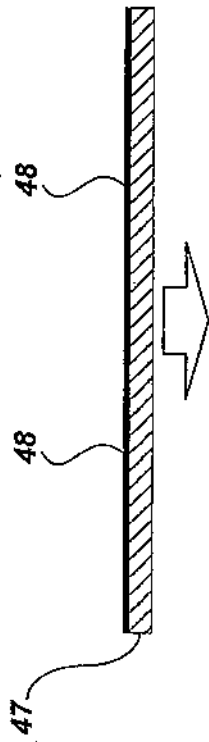


Fig. 8a
Alkylsilane on Silicon
Lithographic Approach



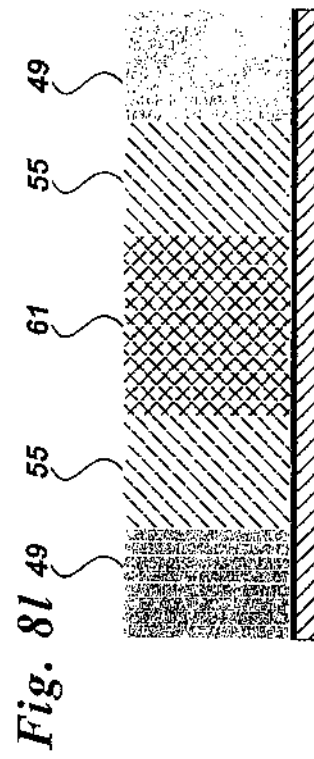
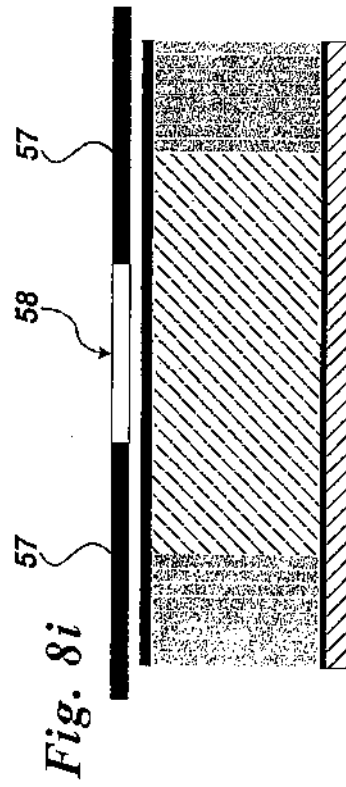
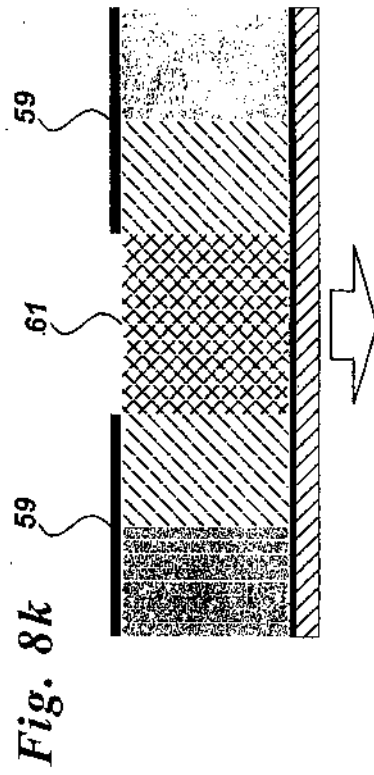
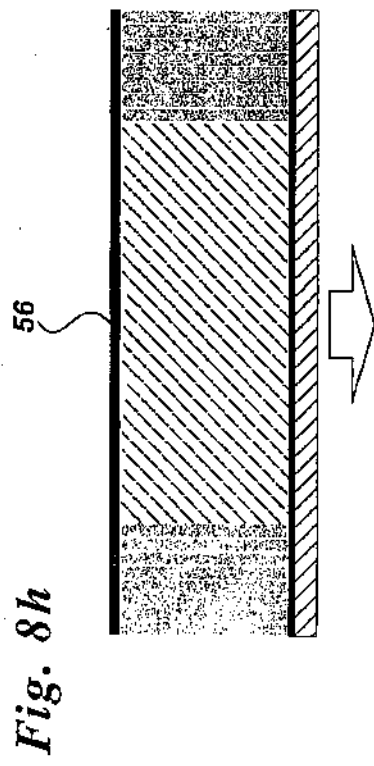
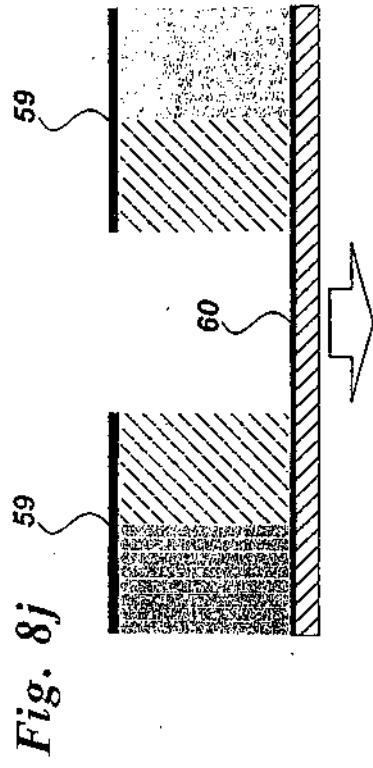
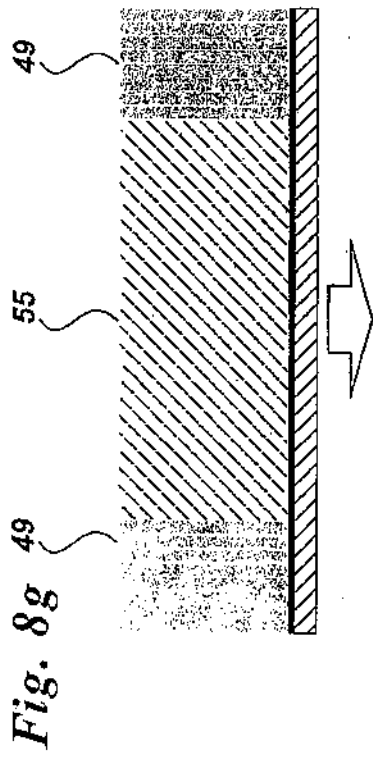


Fig. 9a

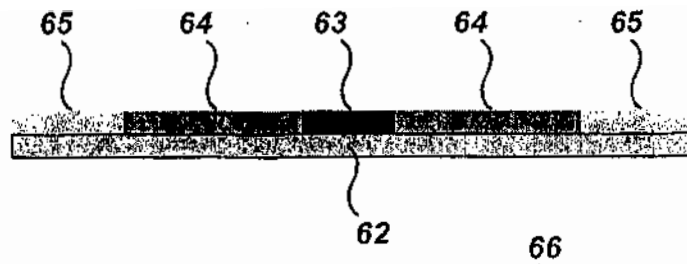


Fig. 9b

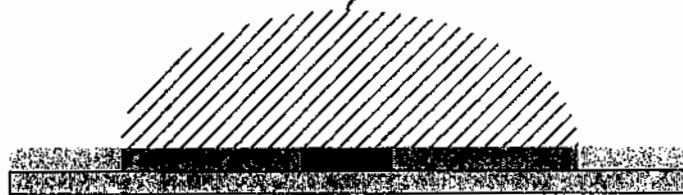


Fig. 9c

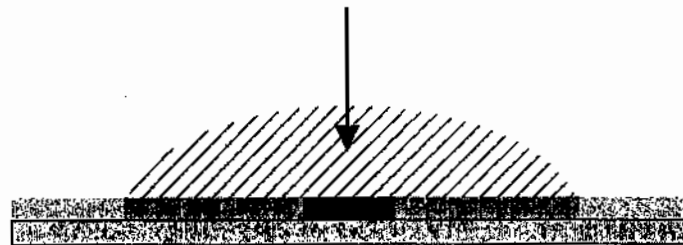


Fig. 9d

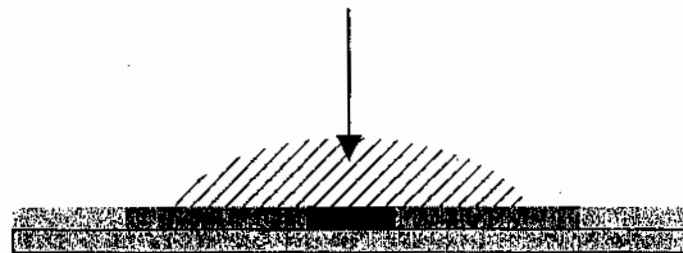


Fig. 9e

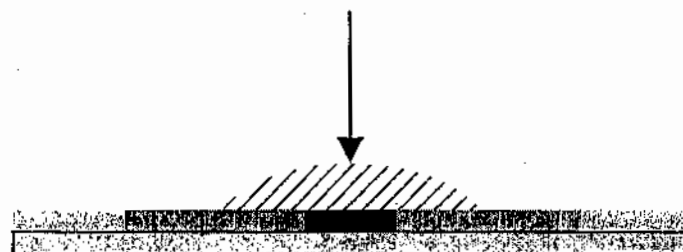


Fig. 9f

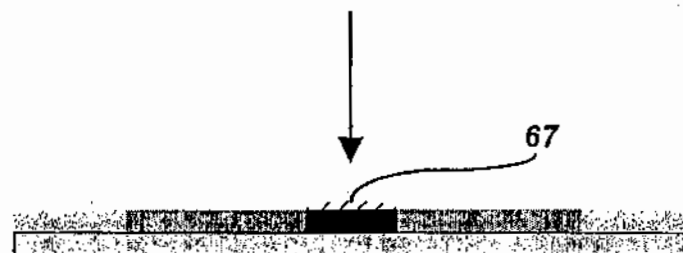


Fig. 10a

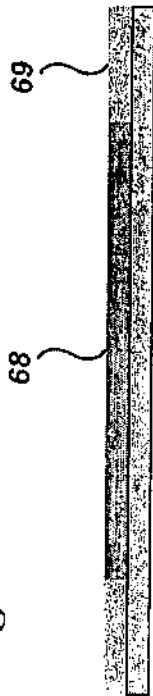


Fig. 10b

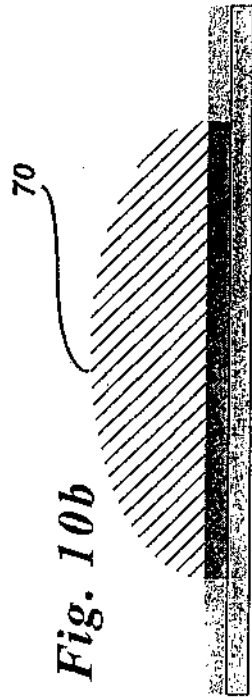


Fig. 10c

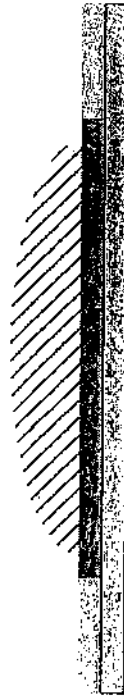


Fig. 10d

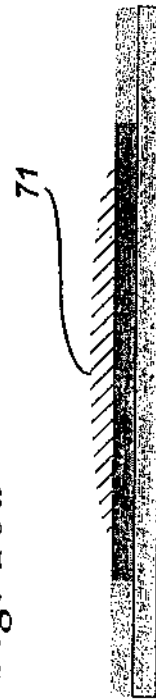


Fig. 10e

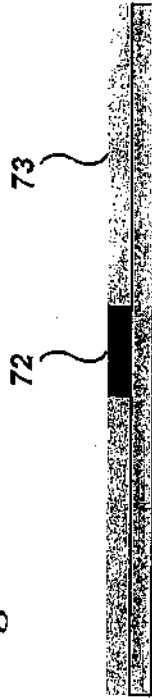


Fig. 10f

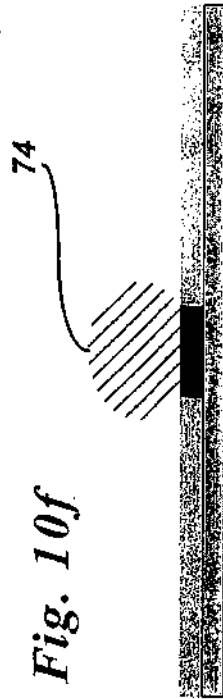


Fig. 10g



Fig. 10h

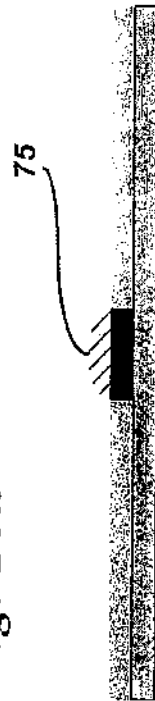


Fig. 11a

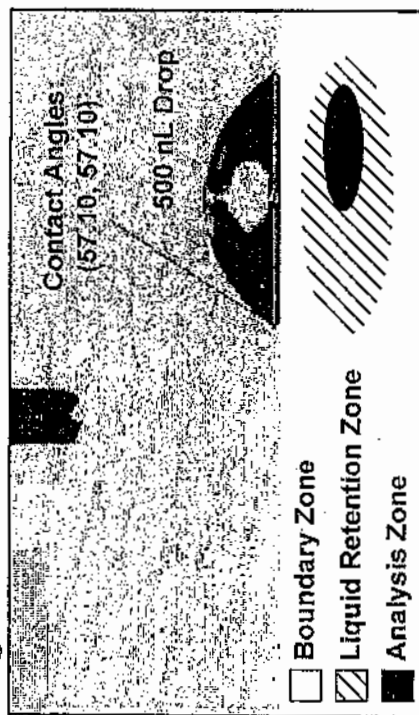


Fig. 11c

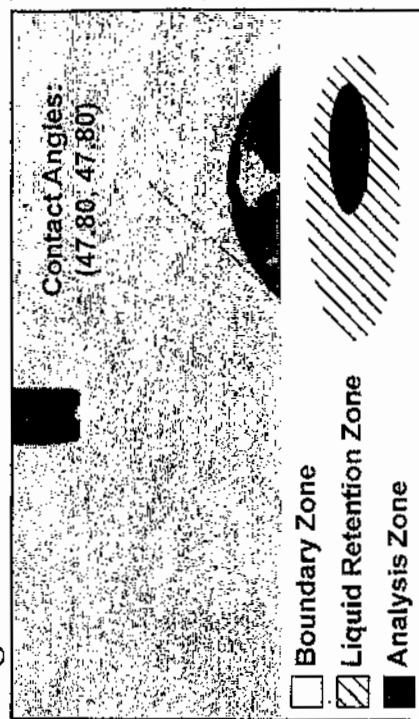


Fig. 11b

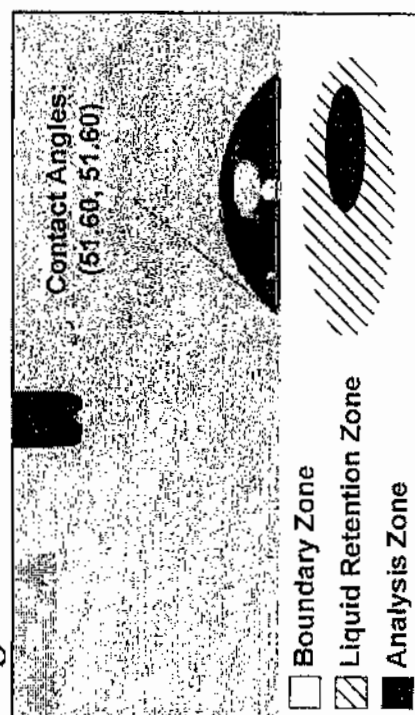


Fig. 11d

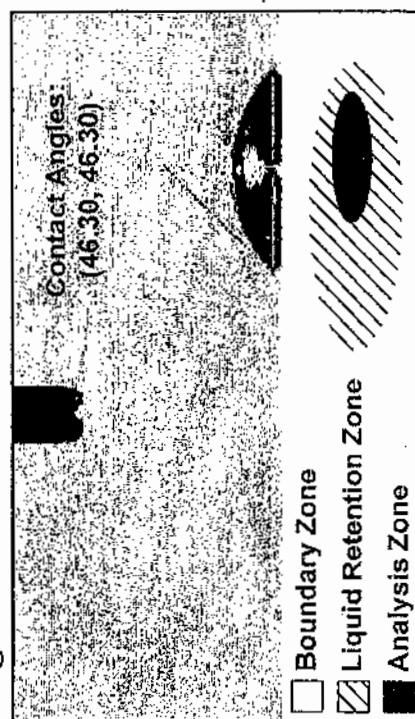


Fig. 11e

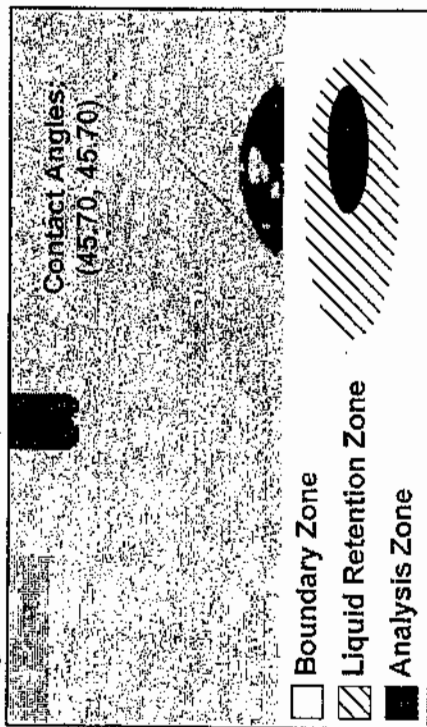


Fig. 11g

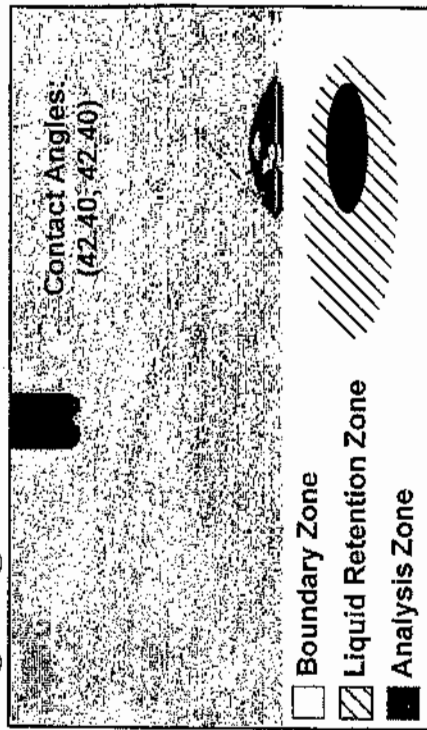


Fig. 11f

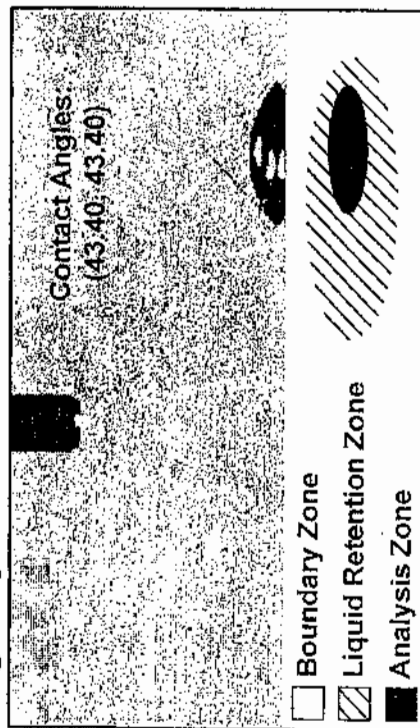


Fig. 11h

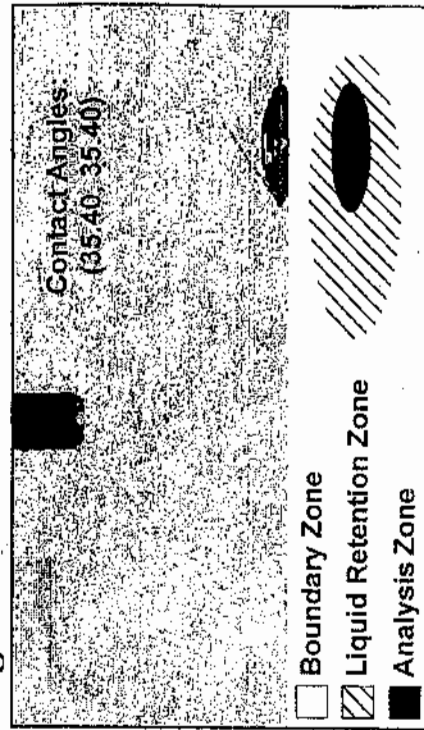


Fig. 12

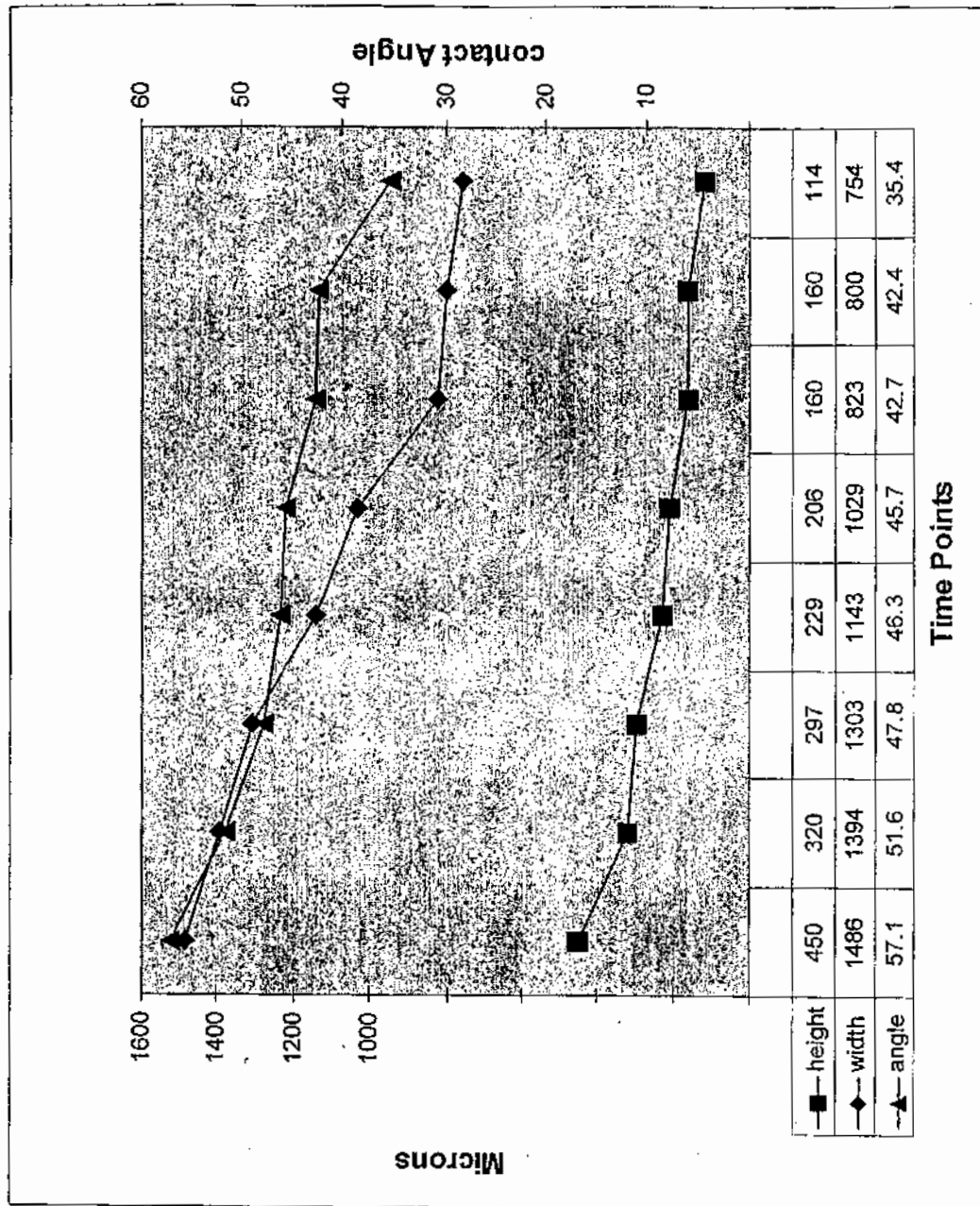
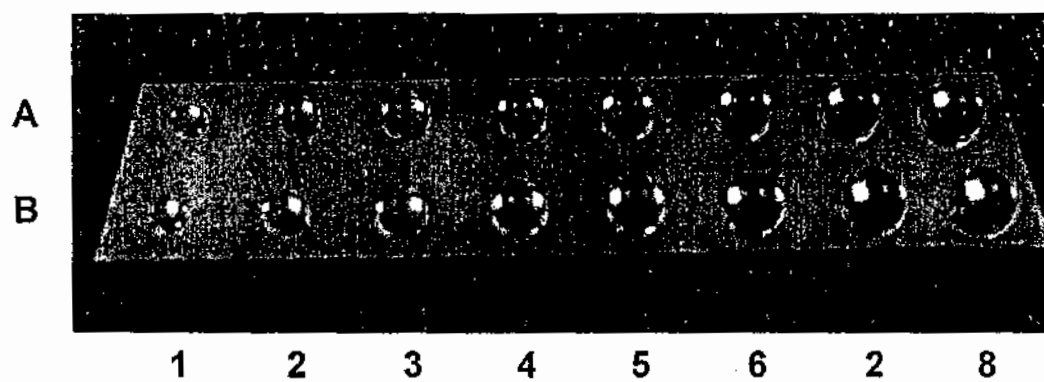
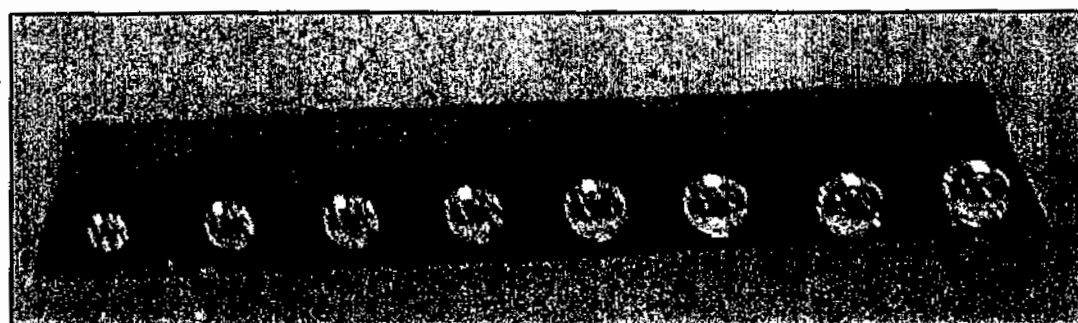


Fig. 13



Well	1AB	2AB	3AB	4AB	5AB	6AB	7AB	8AB
Volume (uL)	5	10	20	30	40	50	60	70

Fig. 14a

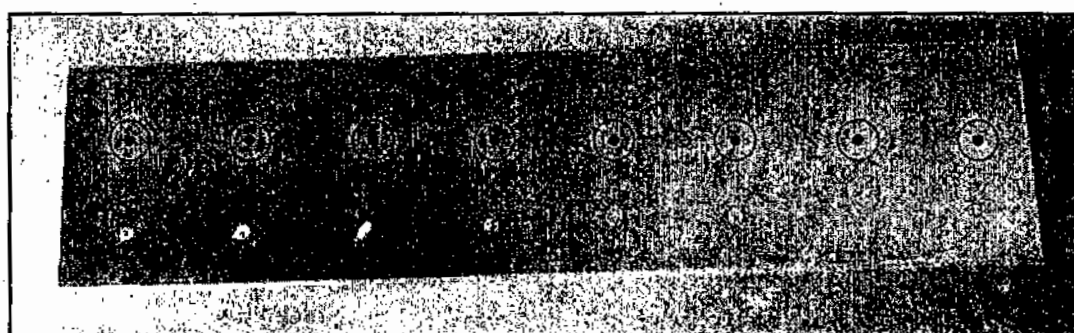


1 2 3 4 5 6 7 8

Drops Immediately After Application

Well	1	2	3	4	5	6	7	8
Volume (uL)	5	10	15	20	25	30	35	40

Fig. 14b



1 2 3 4 5 6 7 8

Drops After Drying

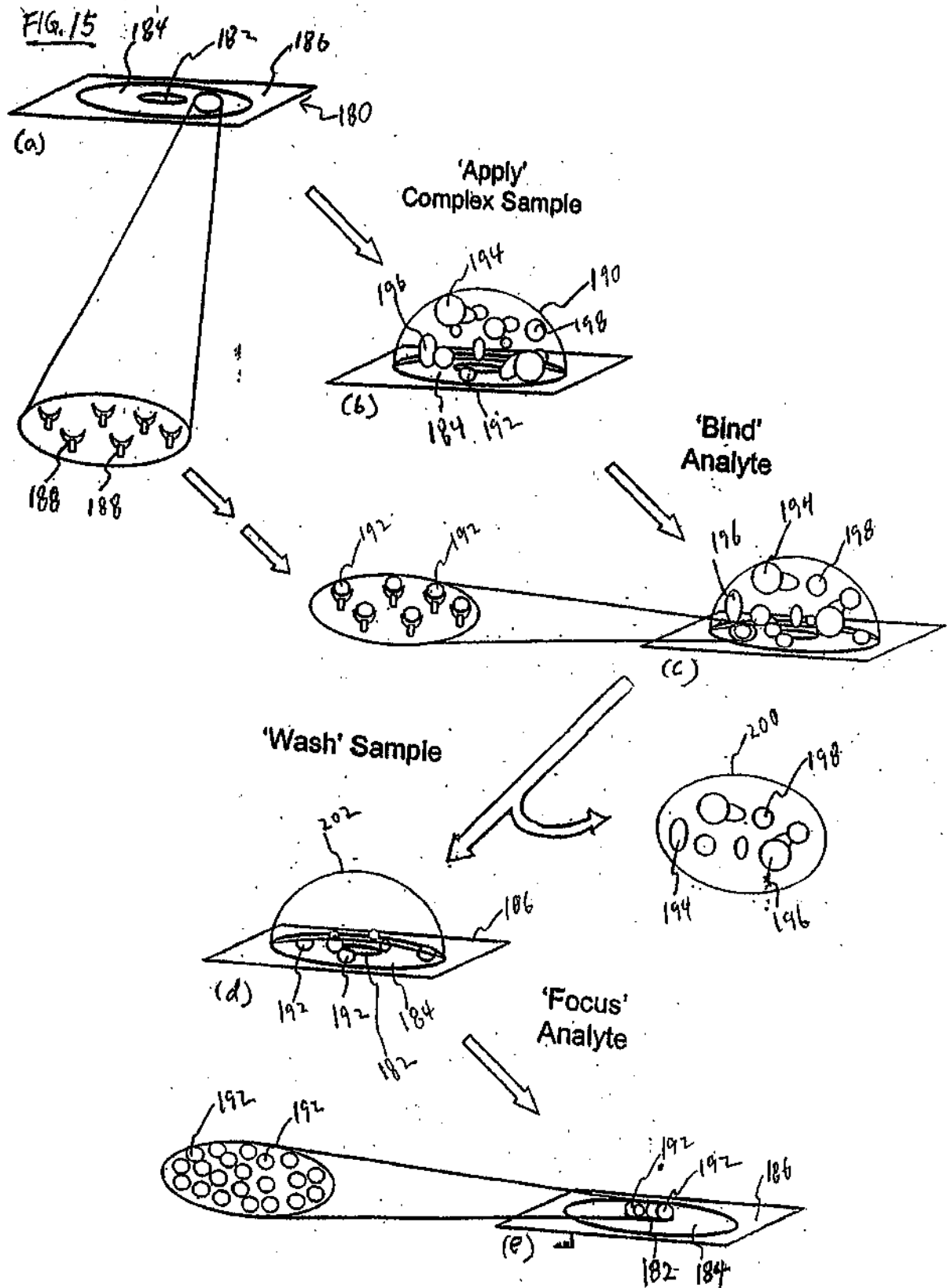
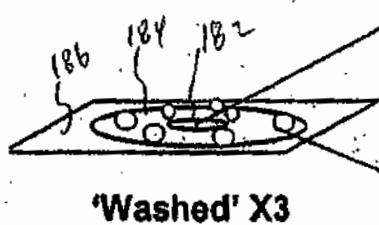
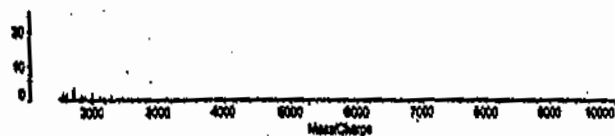


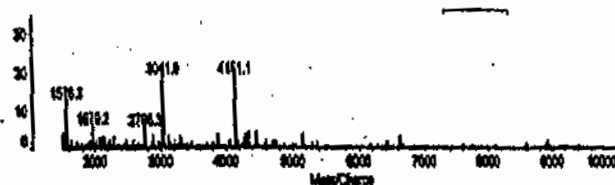
FIG. 16a



'Washed' X3

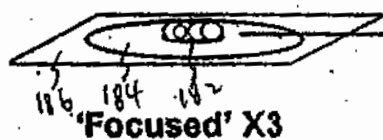


Analysis Zone 'Before' Focusing

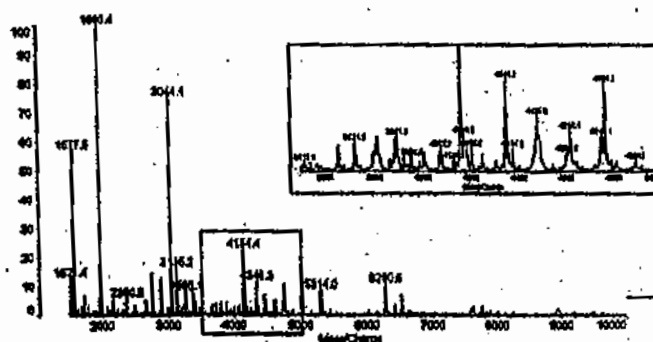


Capture Zone 'Before' Focusing

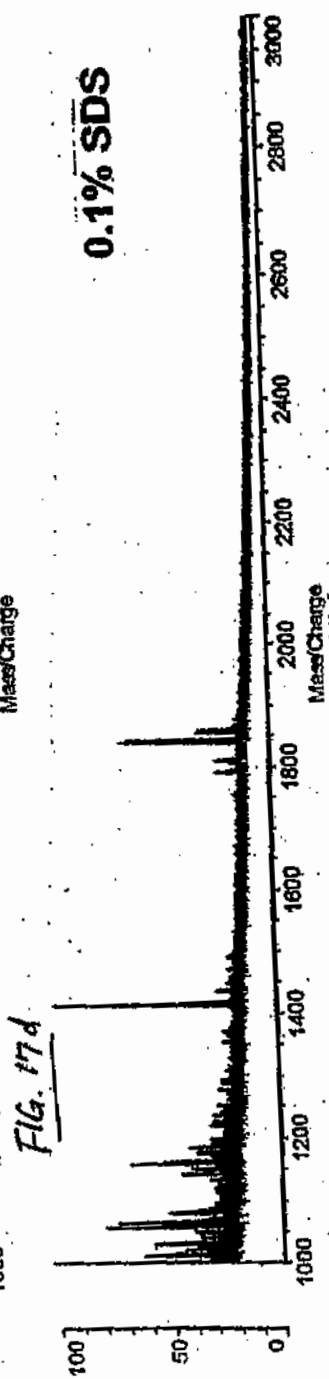
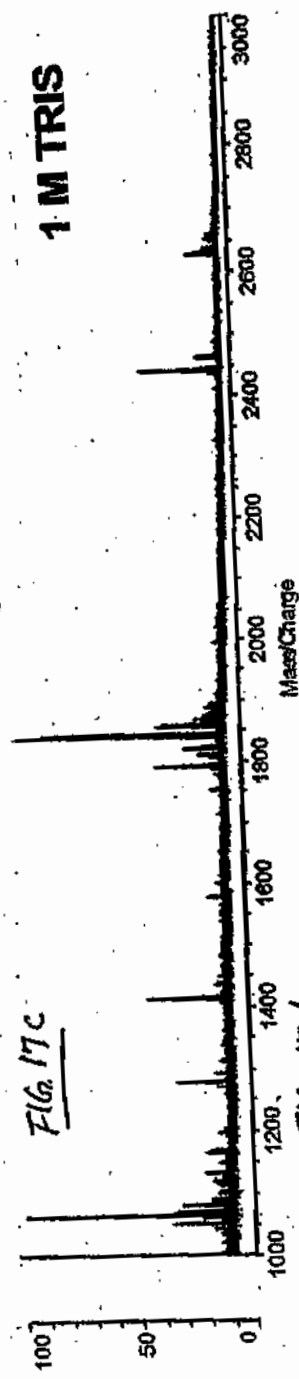
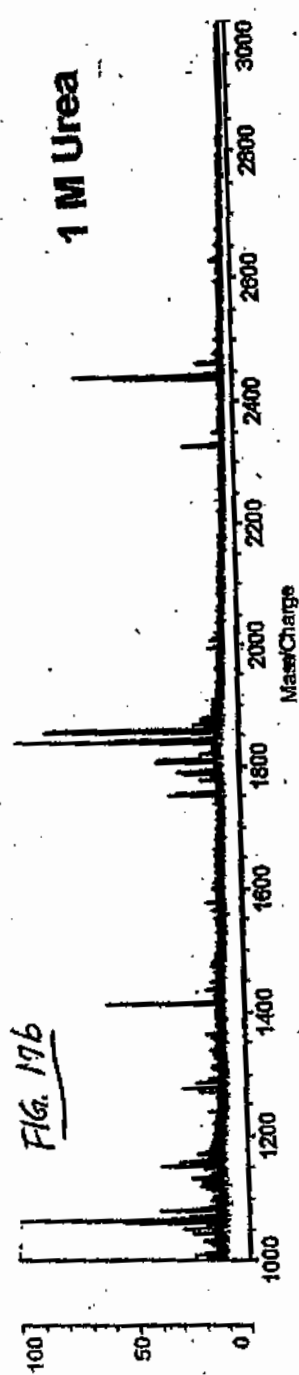
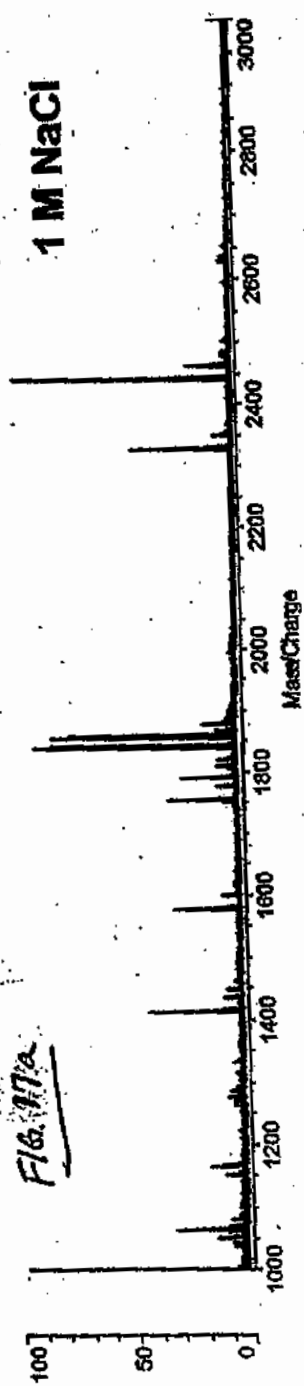
FIG. 16b



'Focused' X3



Analysis Zone 'After' Focusing



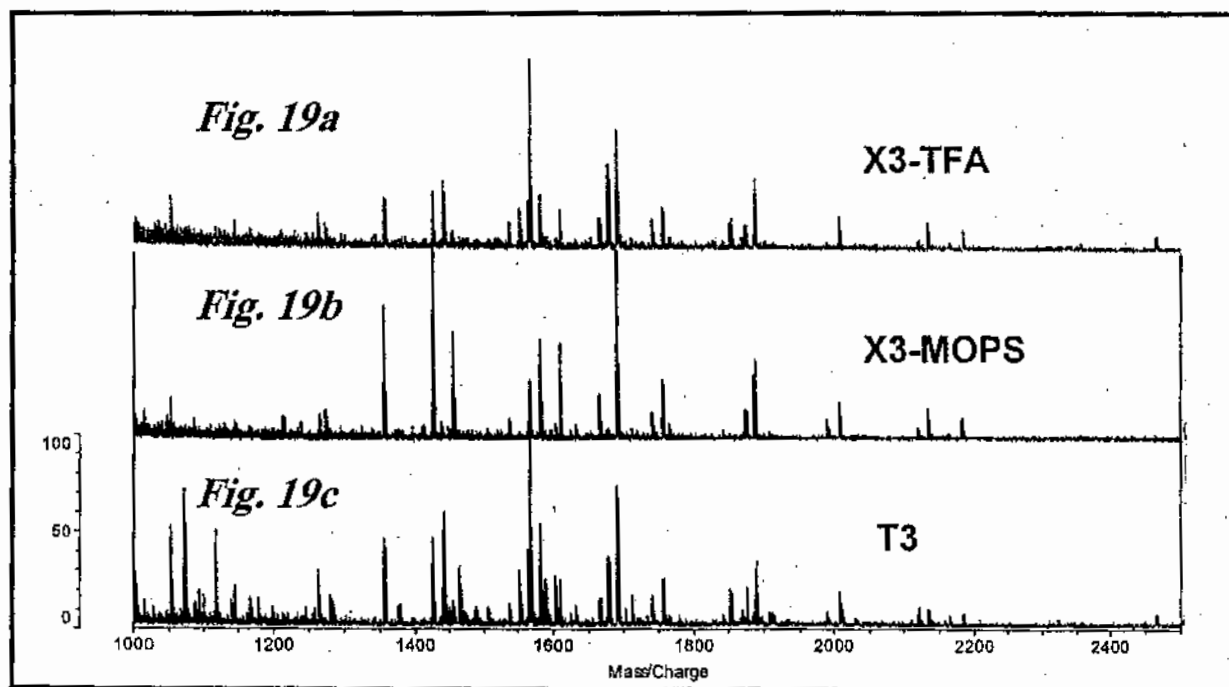
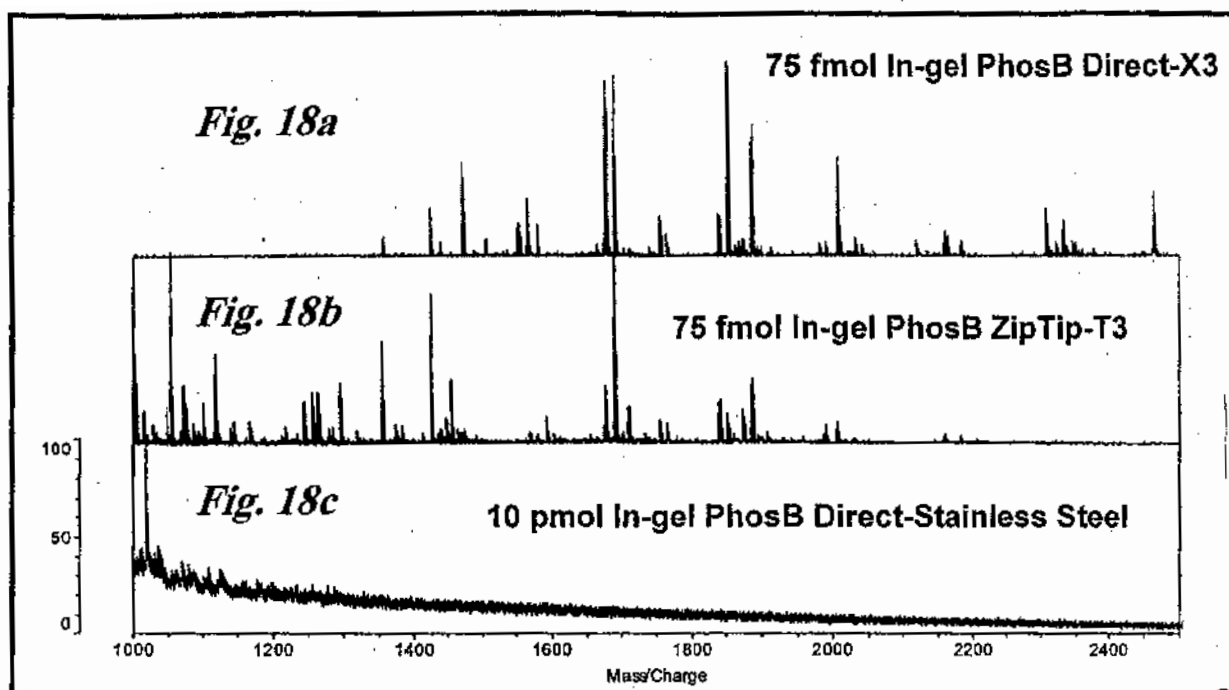


Fig. 20

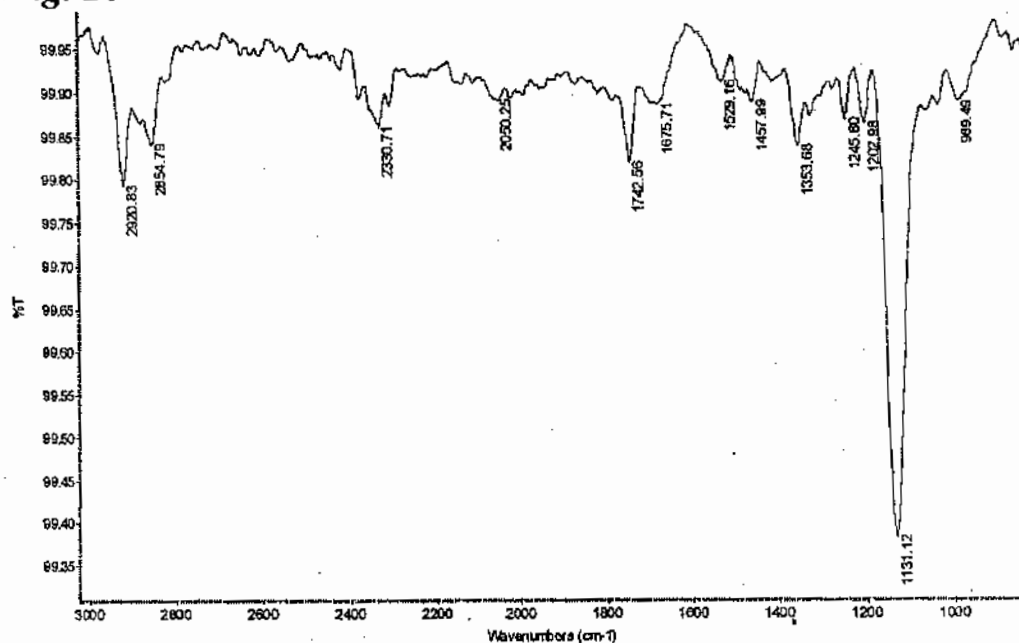


Fig. 21

Antibody → Peptide ↓	Anti ACTH C-terminus	Anti ACTH N-terminus	Non-specific Mouse IgG
ACTH 18-39 (C-terminal)	+	—	—
ACTH 1-39 (full-length)	+	+	—
	(2 nM)	(100 nM)	(100 nM)
	(2 nM)	(2 nM)	(100 nM)

Fig. 22

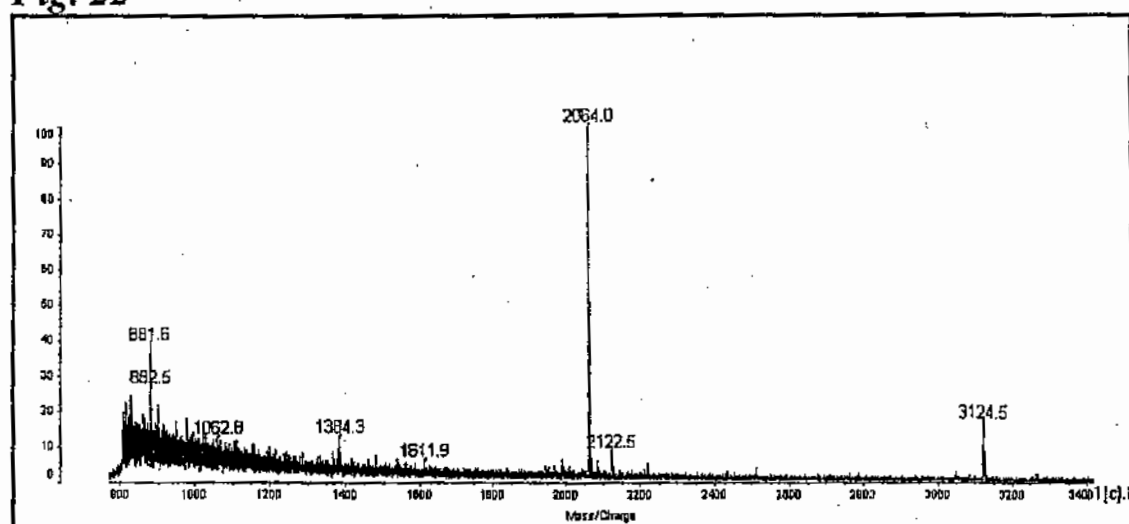


Fig. 23

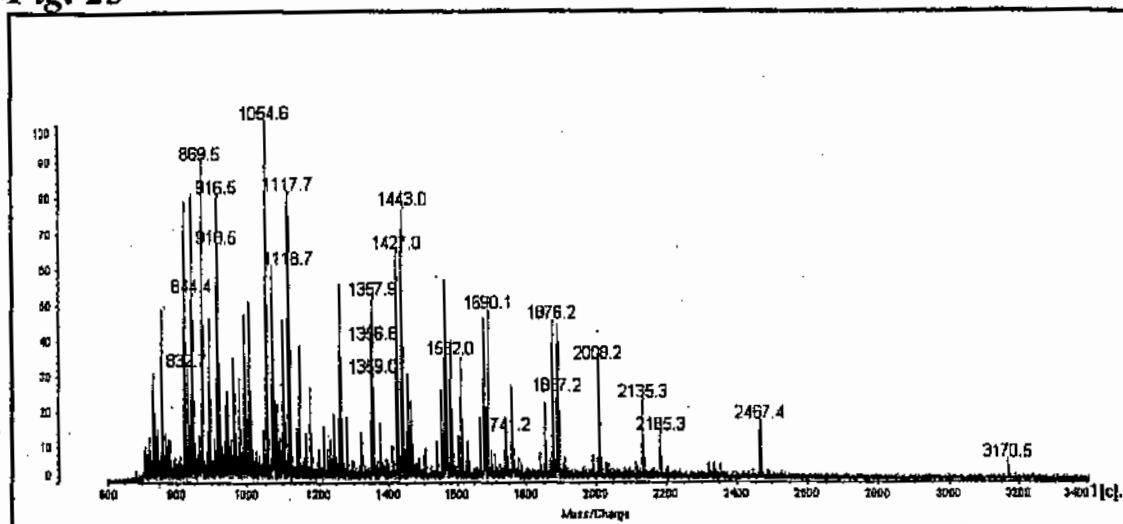


Fig. 24

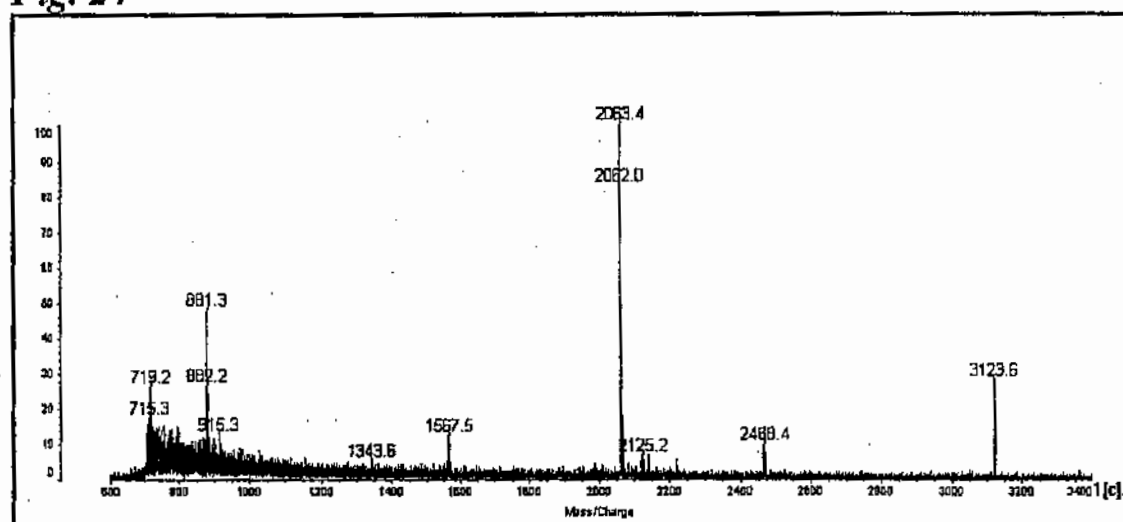


Fig. 25

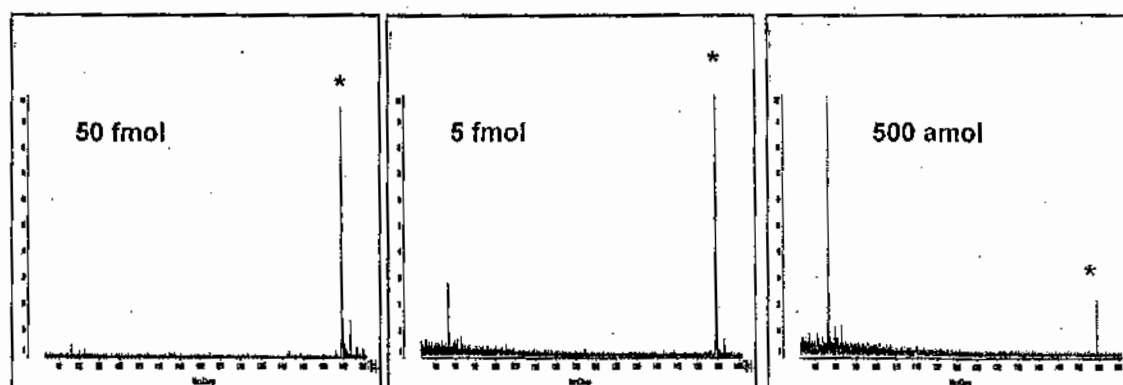


Fig. 26

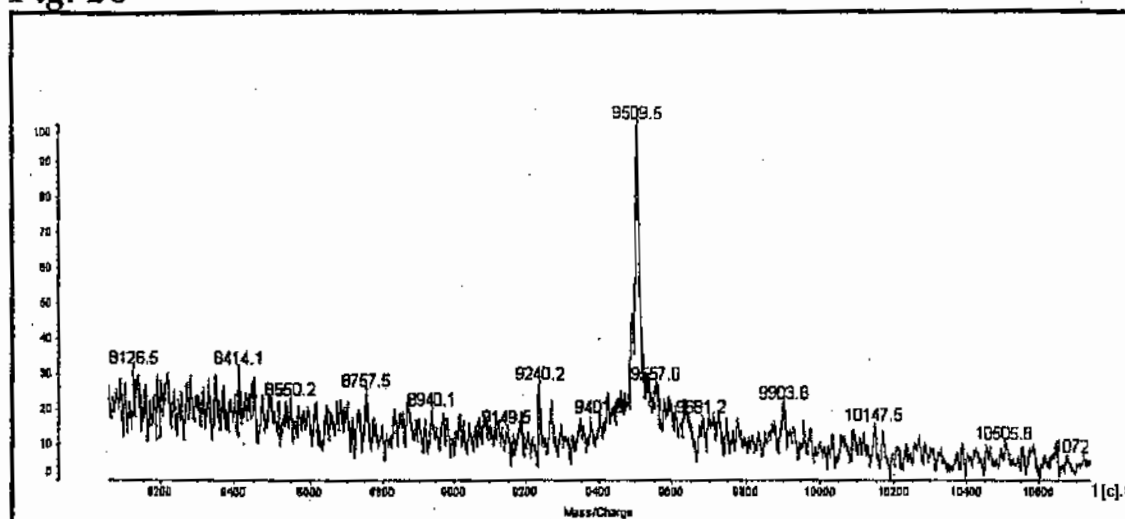


FIG. 27a

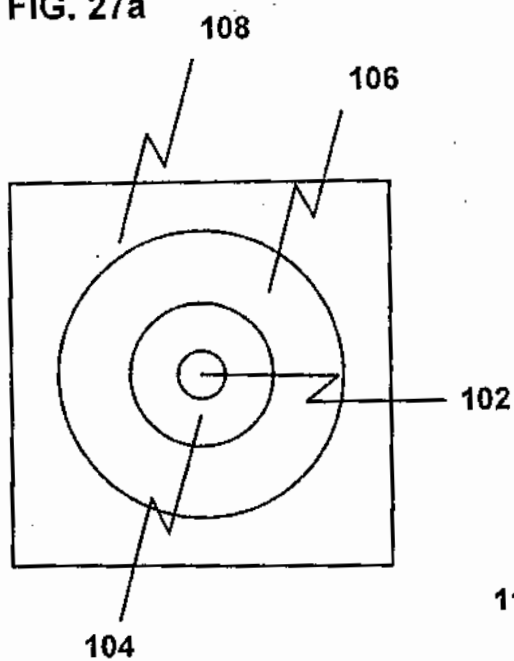


FIG. 27b

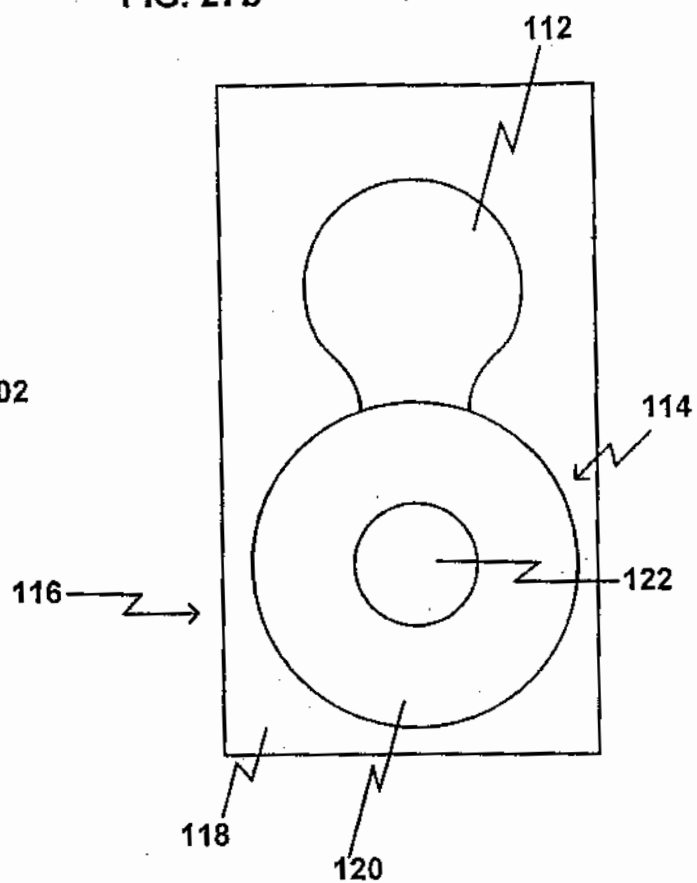


FIG. 27c

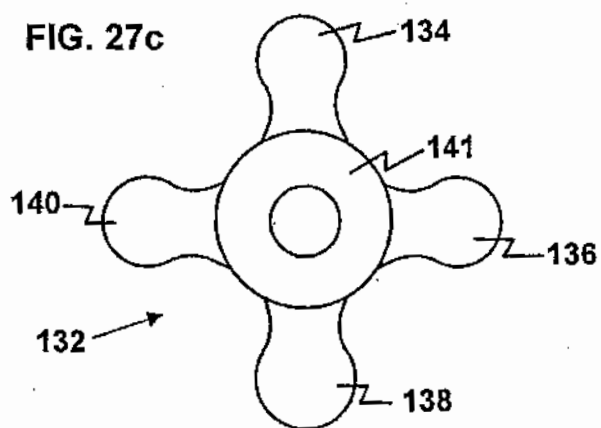


FIG. 27d

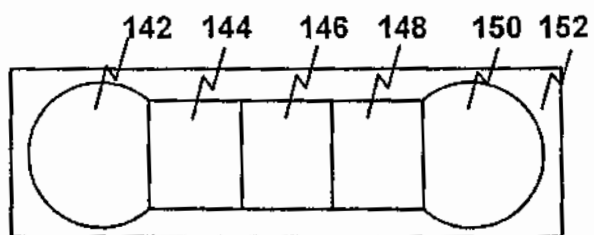


FIG. 27e

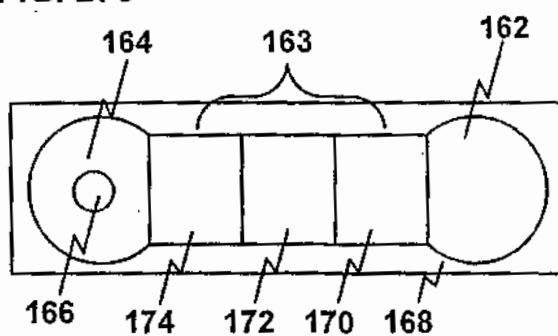


Fig. 28a

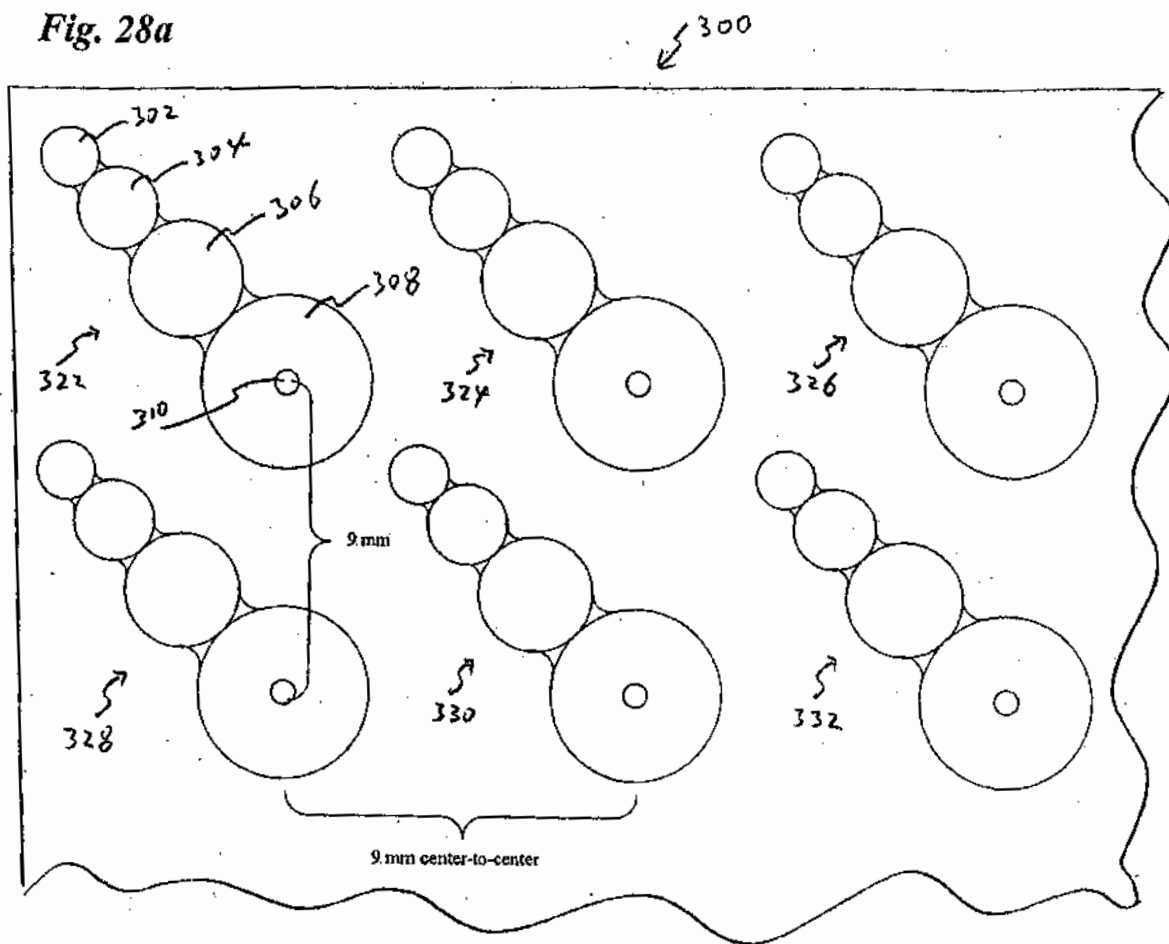


Fig. 28b

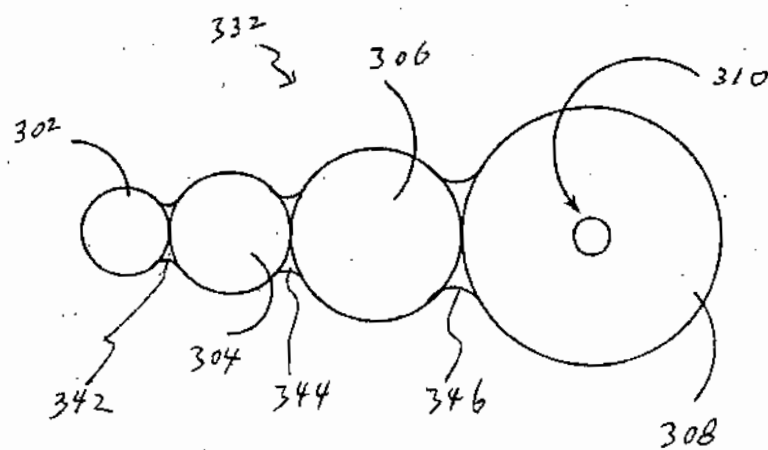


FIG. 29

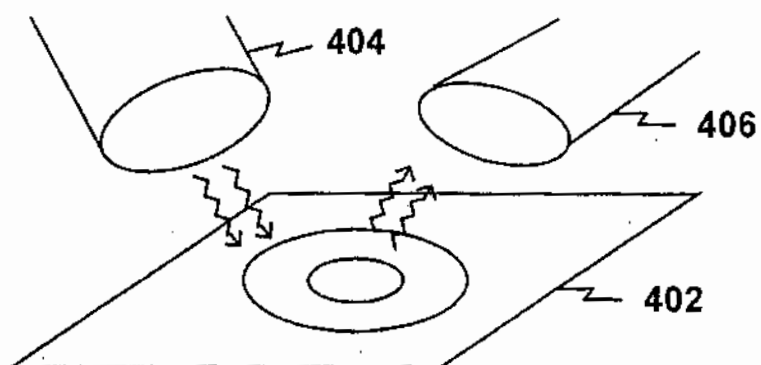


FIG. 30

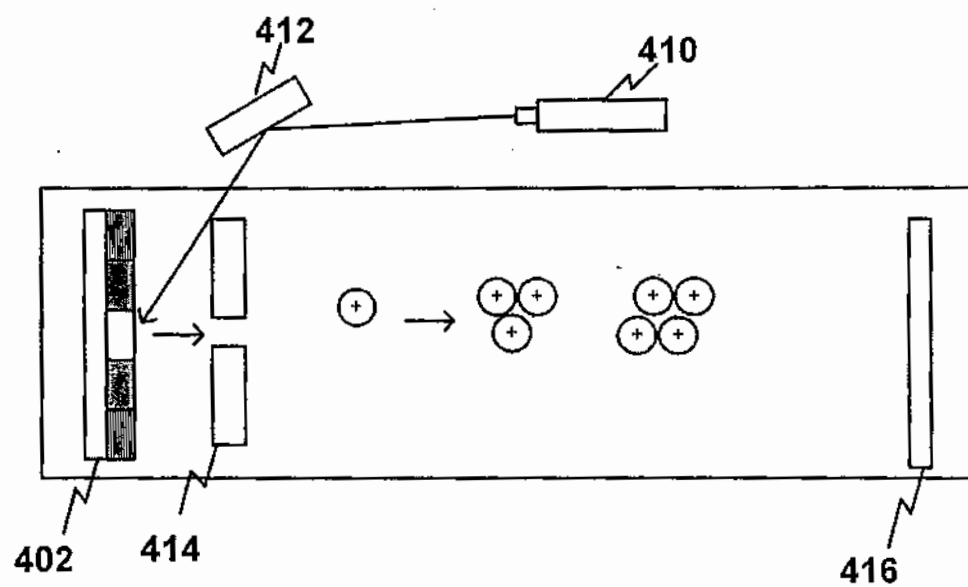


FIG. 31

