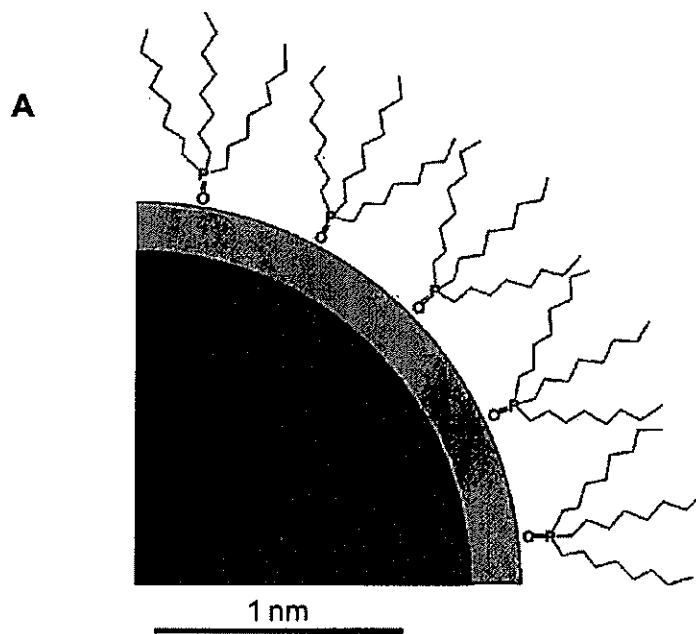
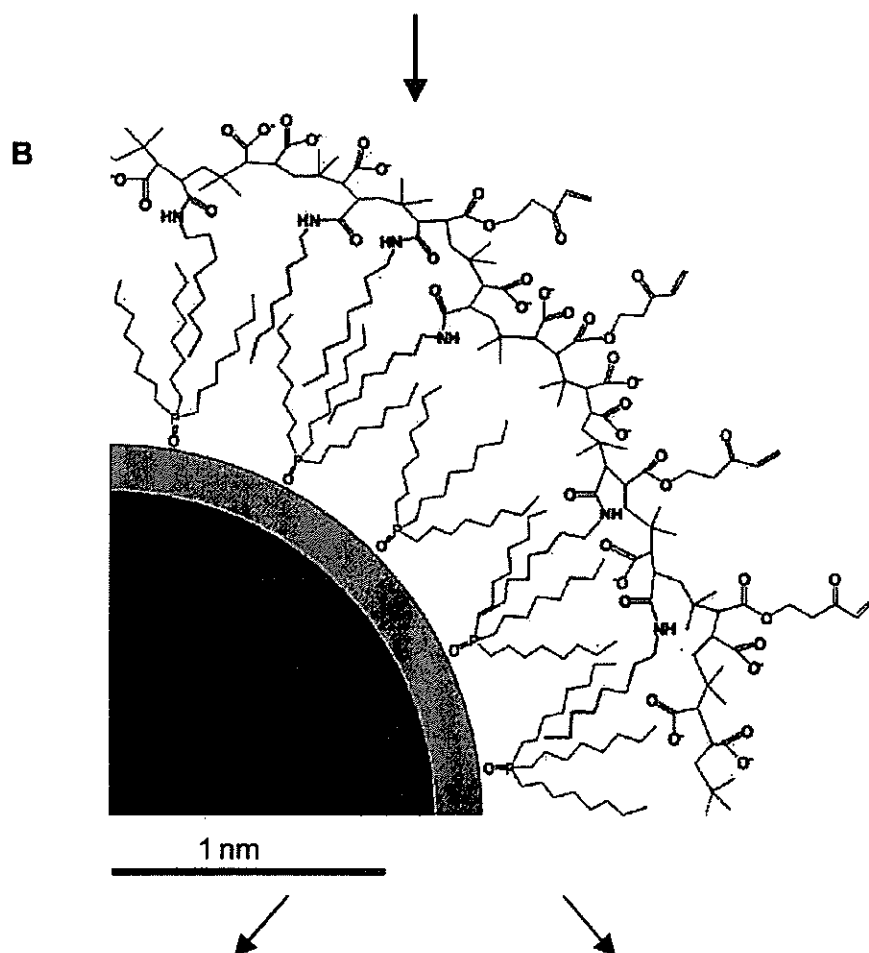
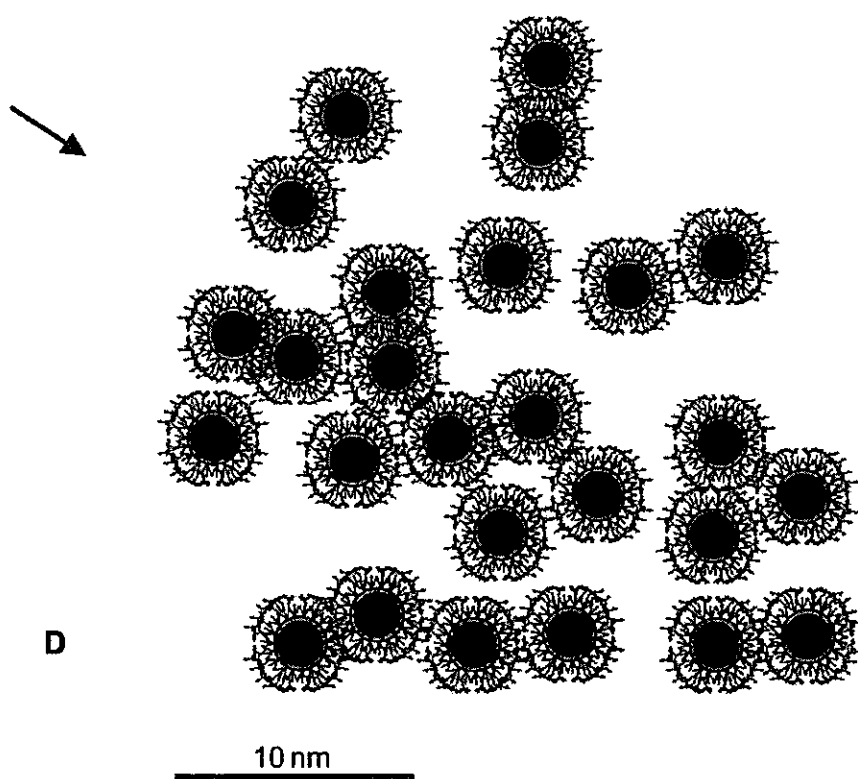
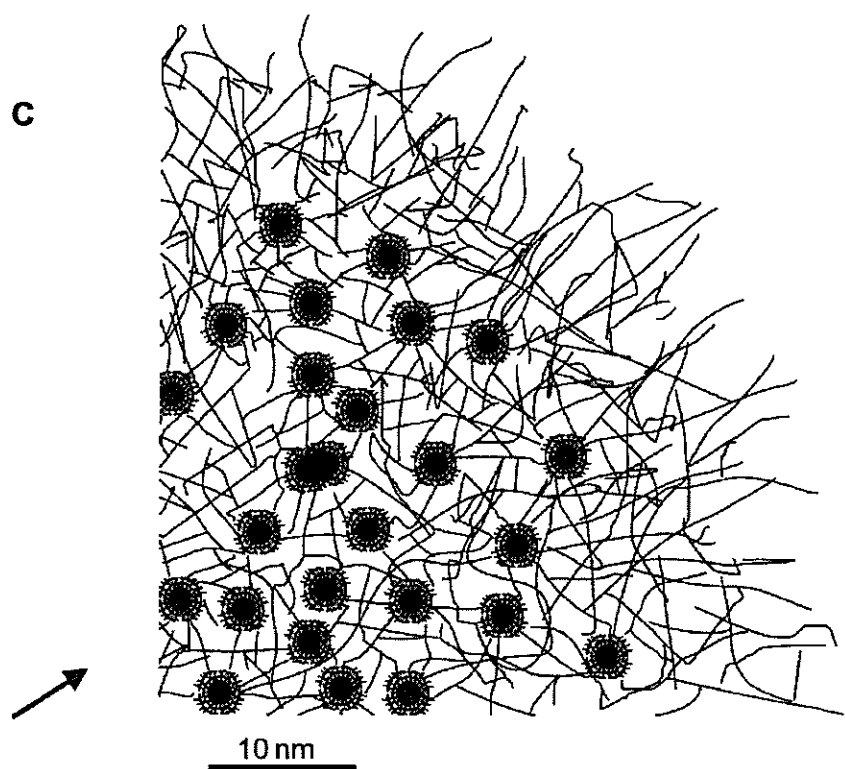


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**Fig. 1**

(cont. on next page)

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Fig. 1 (cont.)

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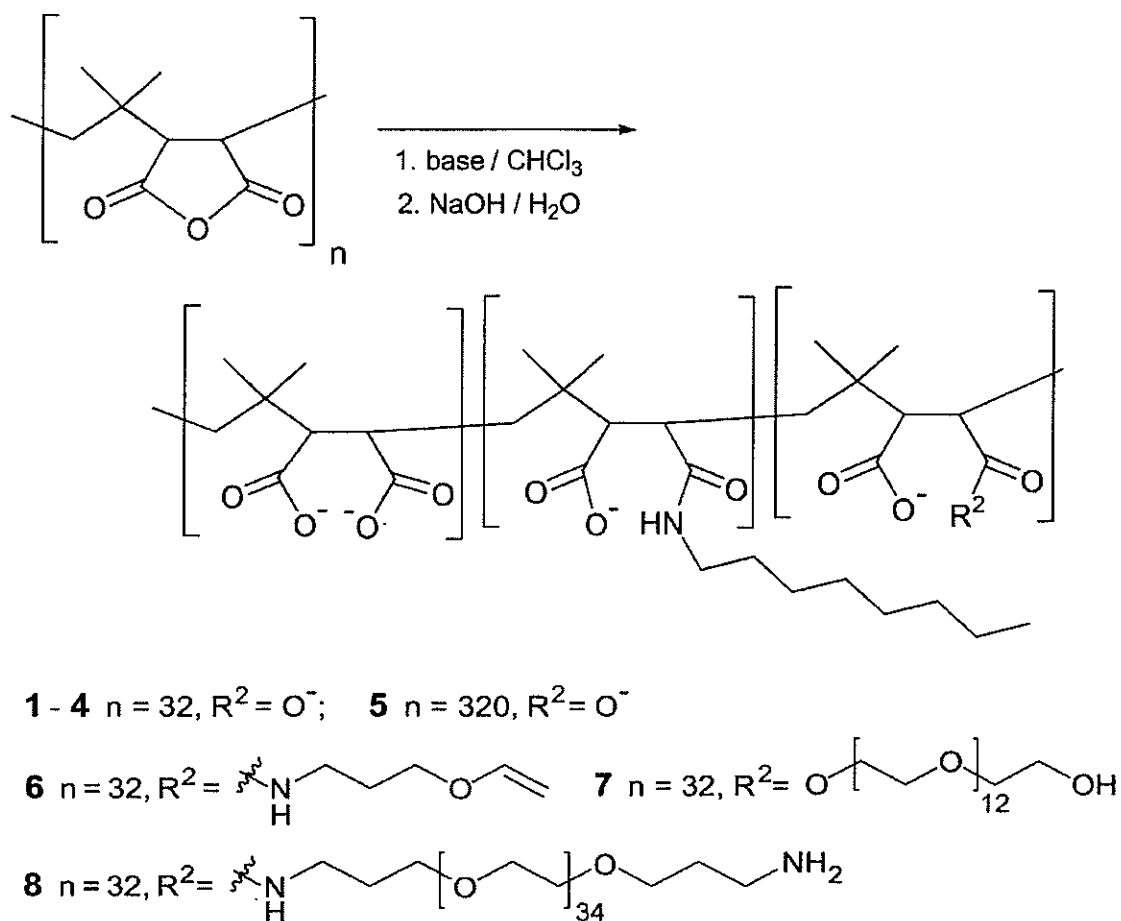


Fig. 2A

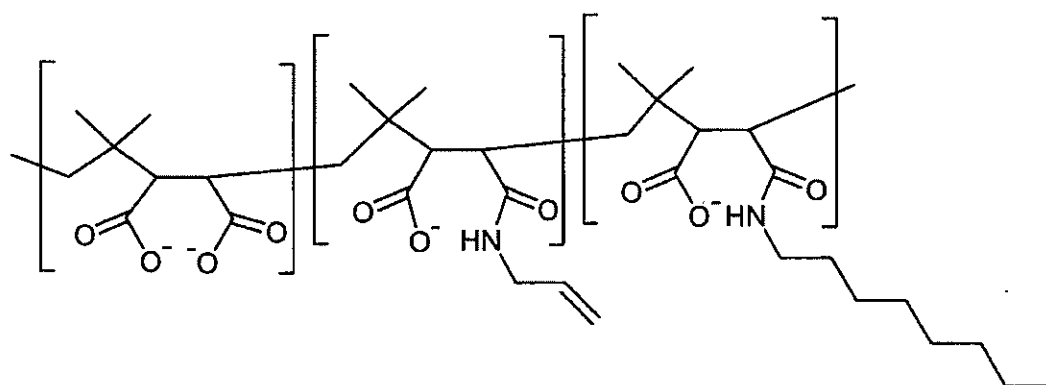
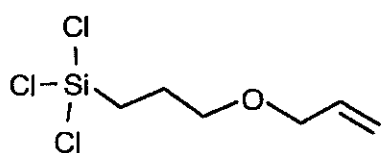
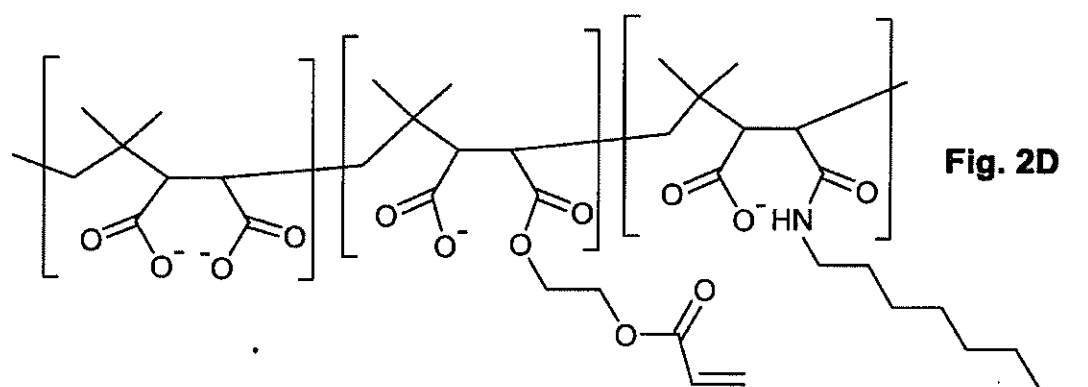
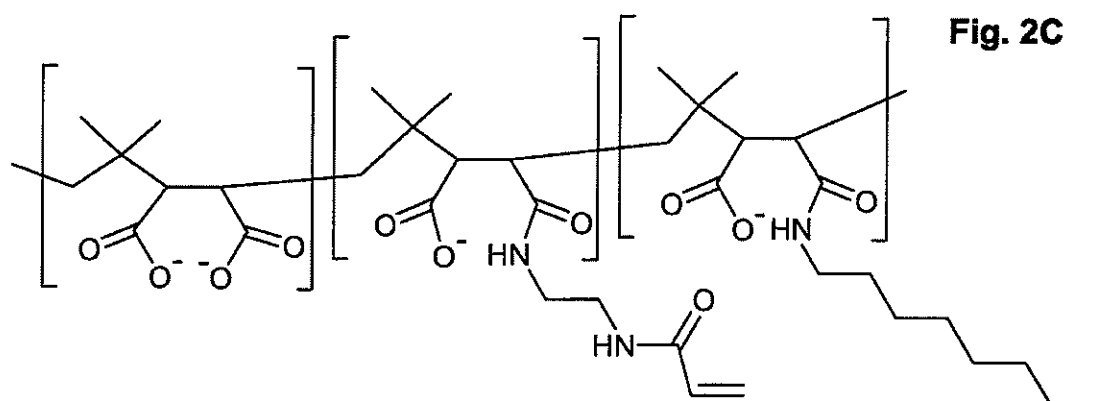
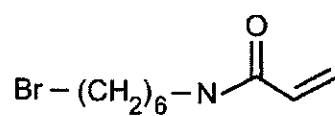
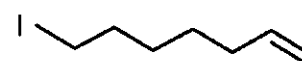
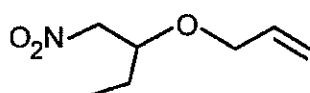
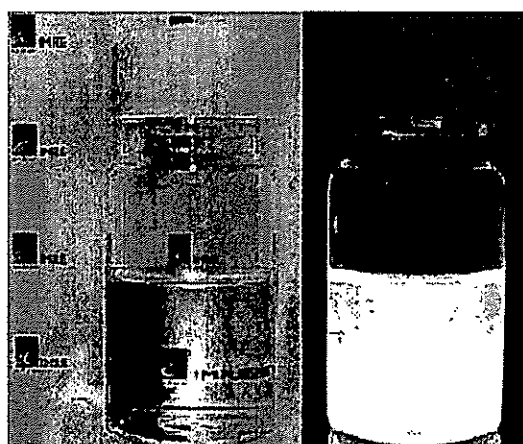
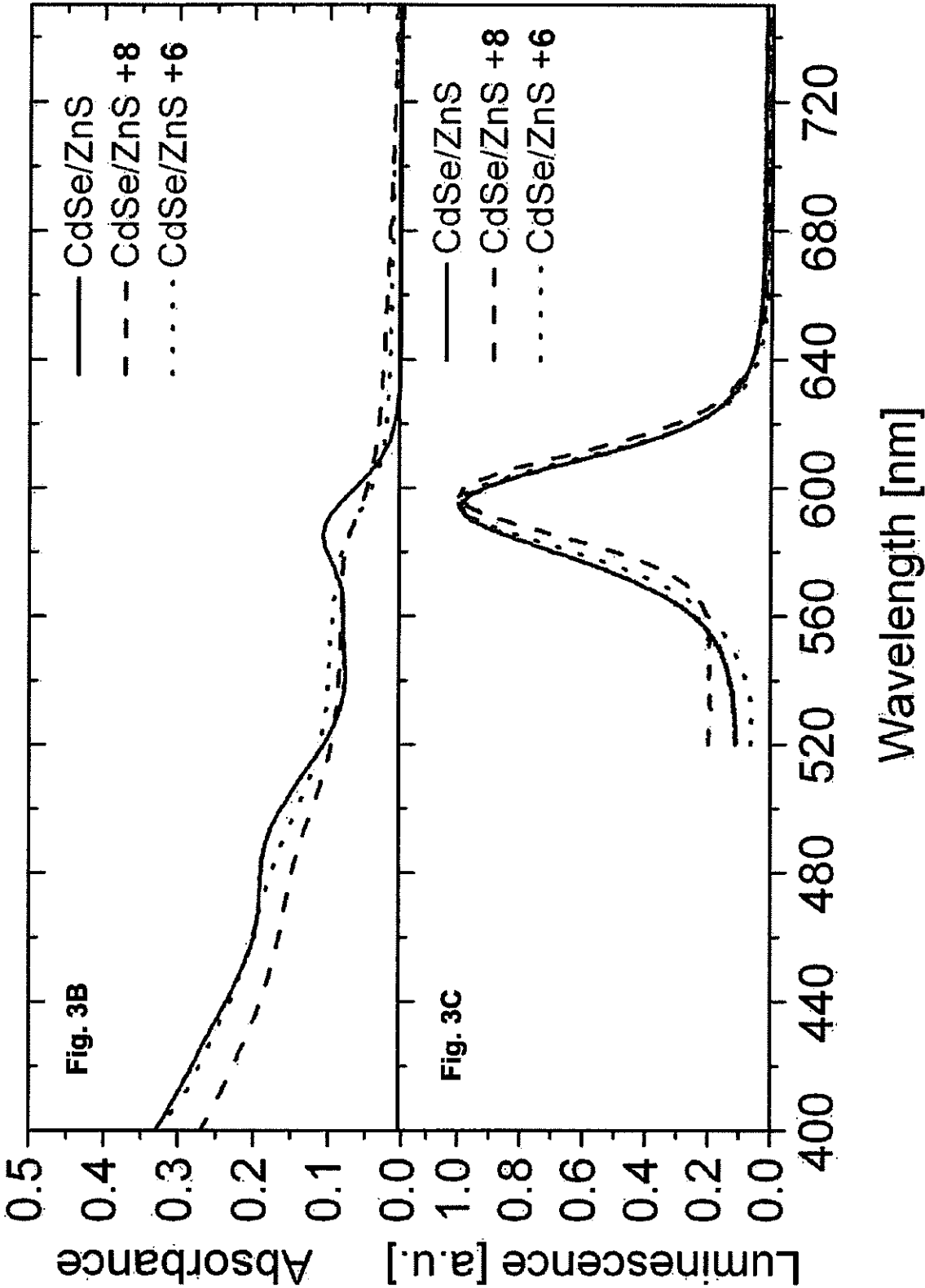


Fig. 2B

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**Fig. 2F****Fig. 3A**



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Fig. 4A

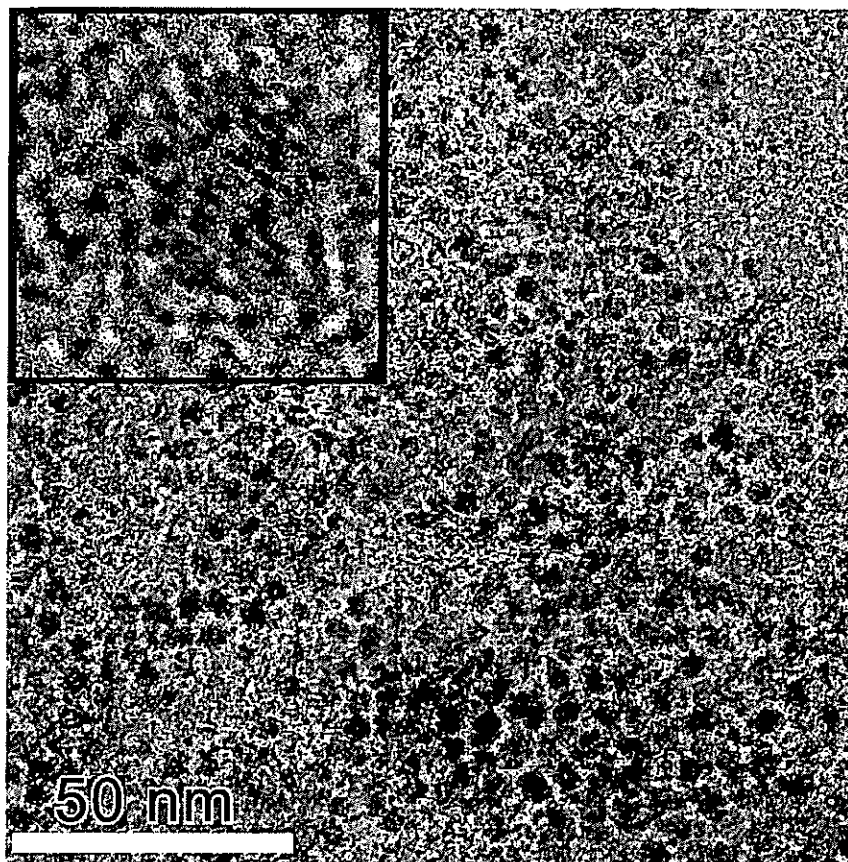
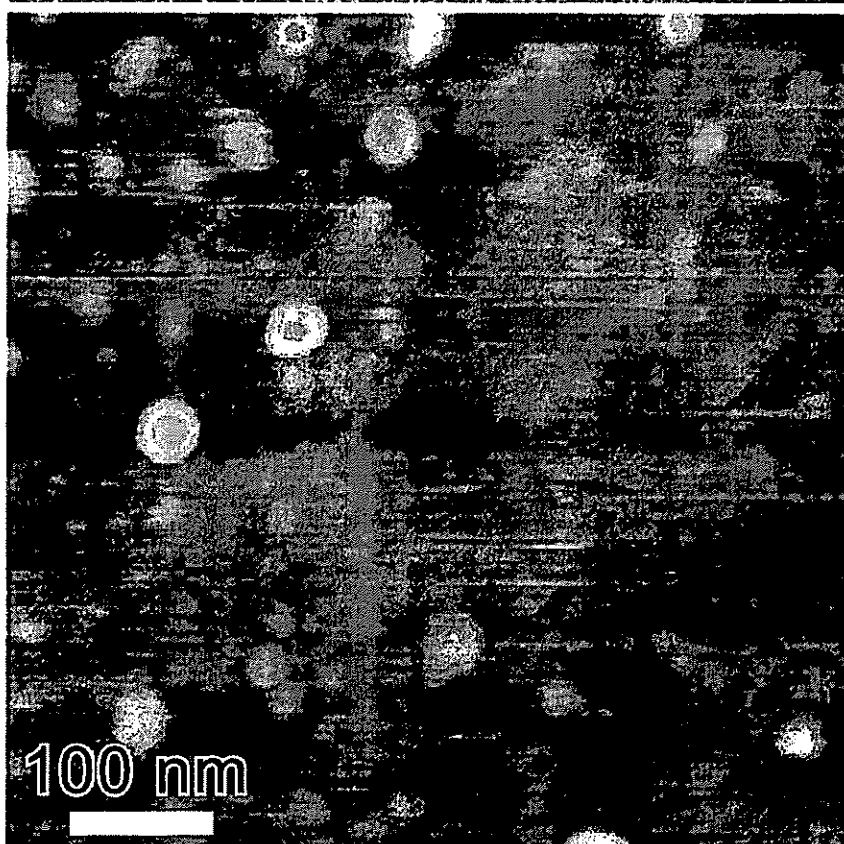
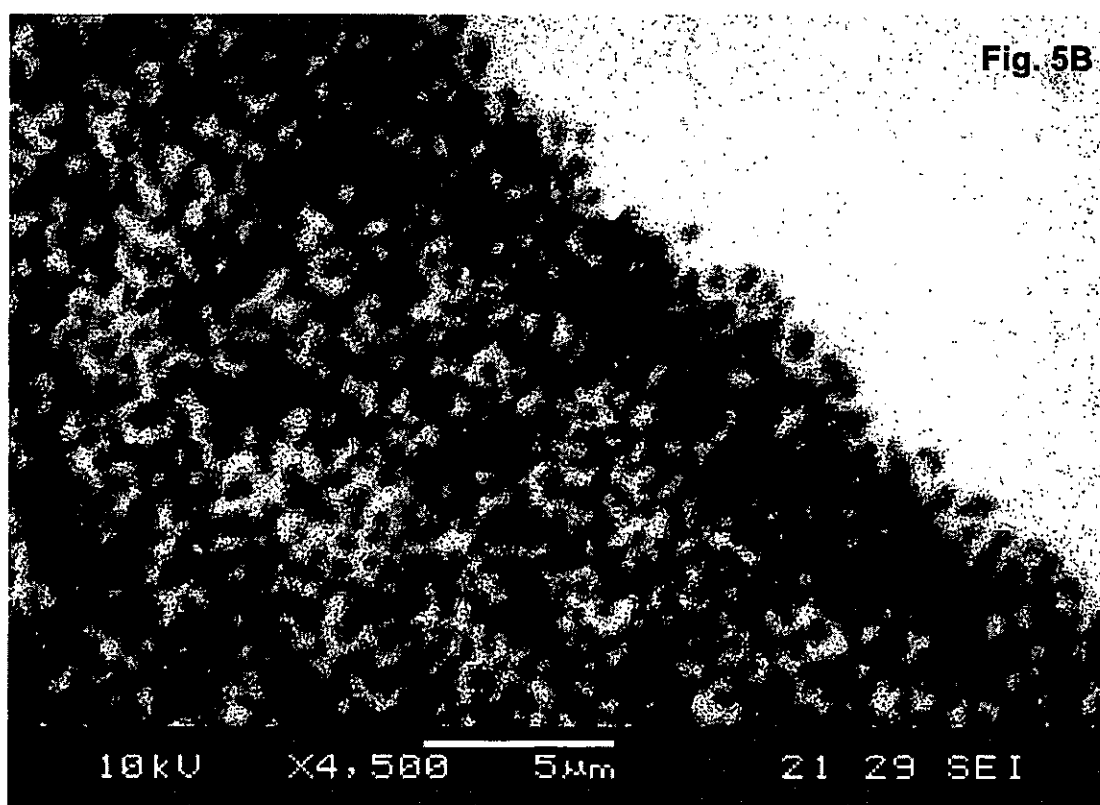
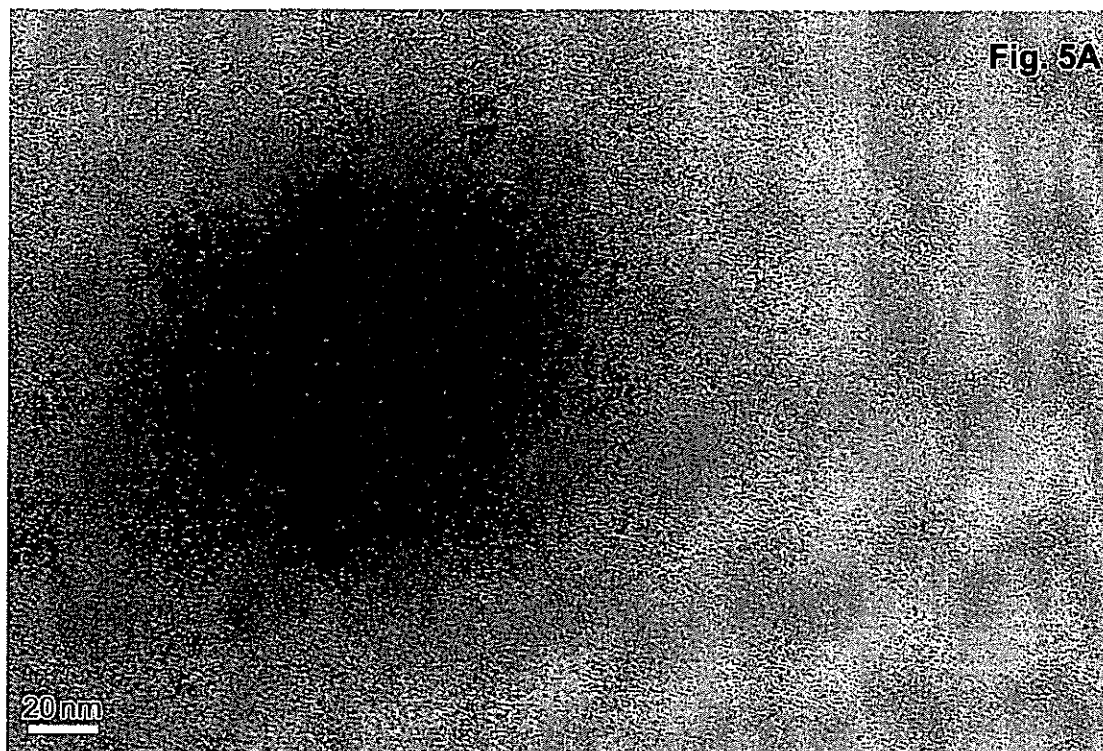


Fig. 4B



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Fig. 6A

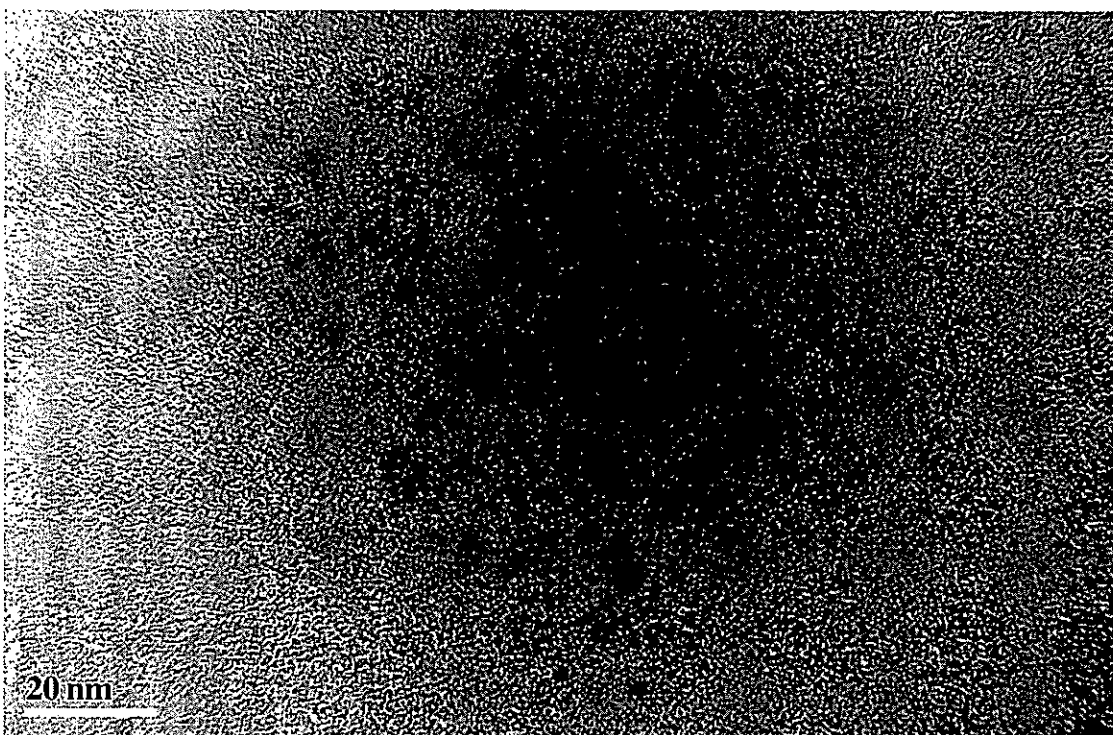
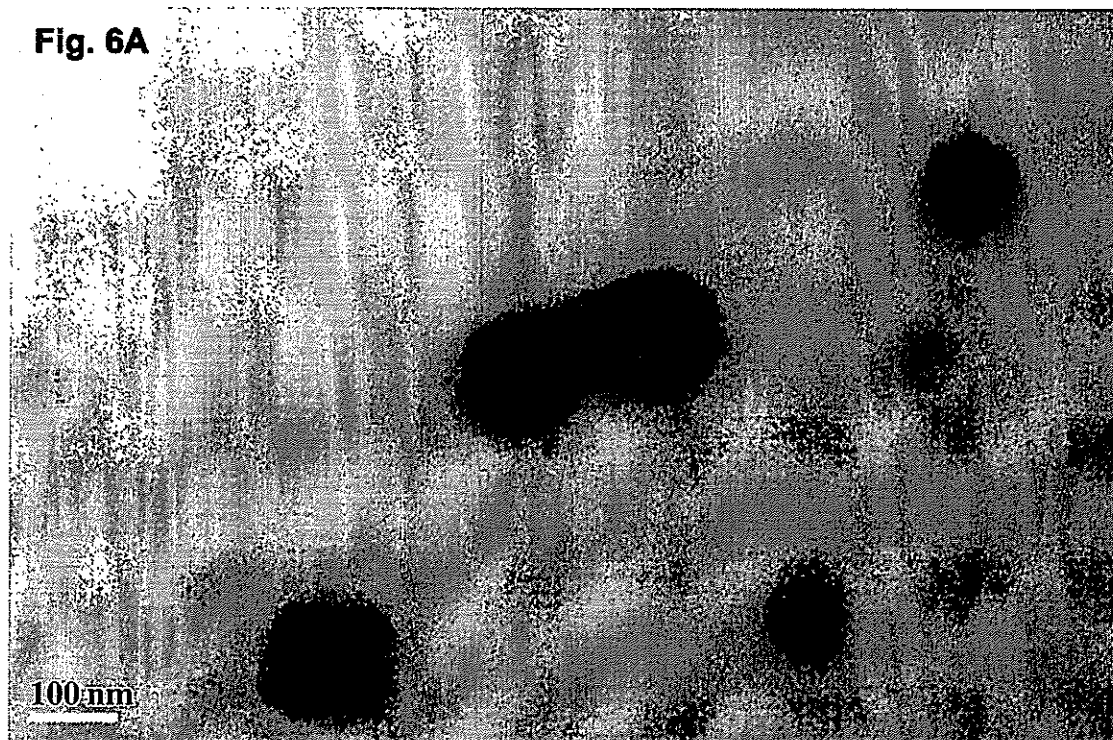
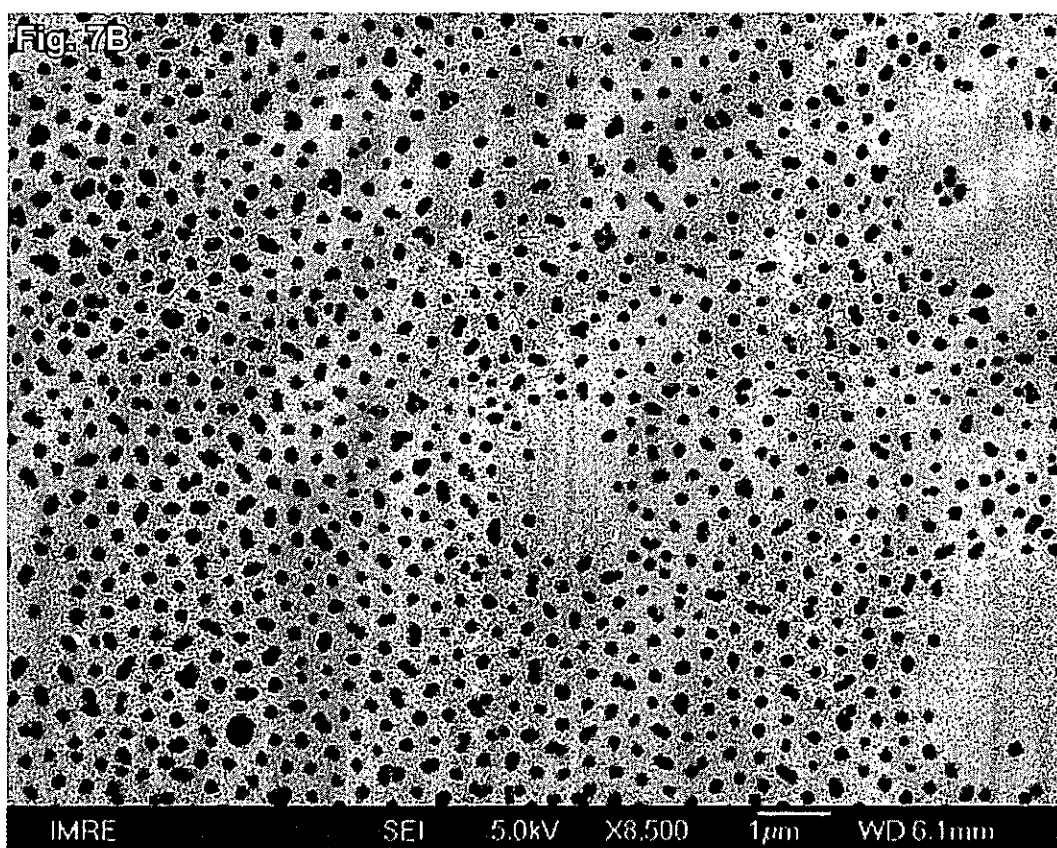
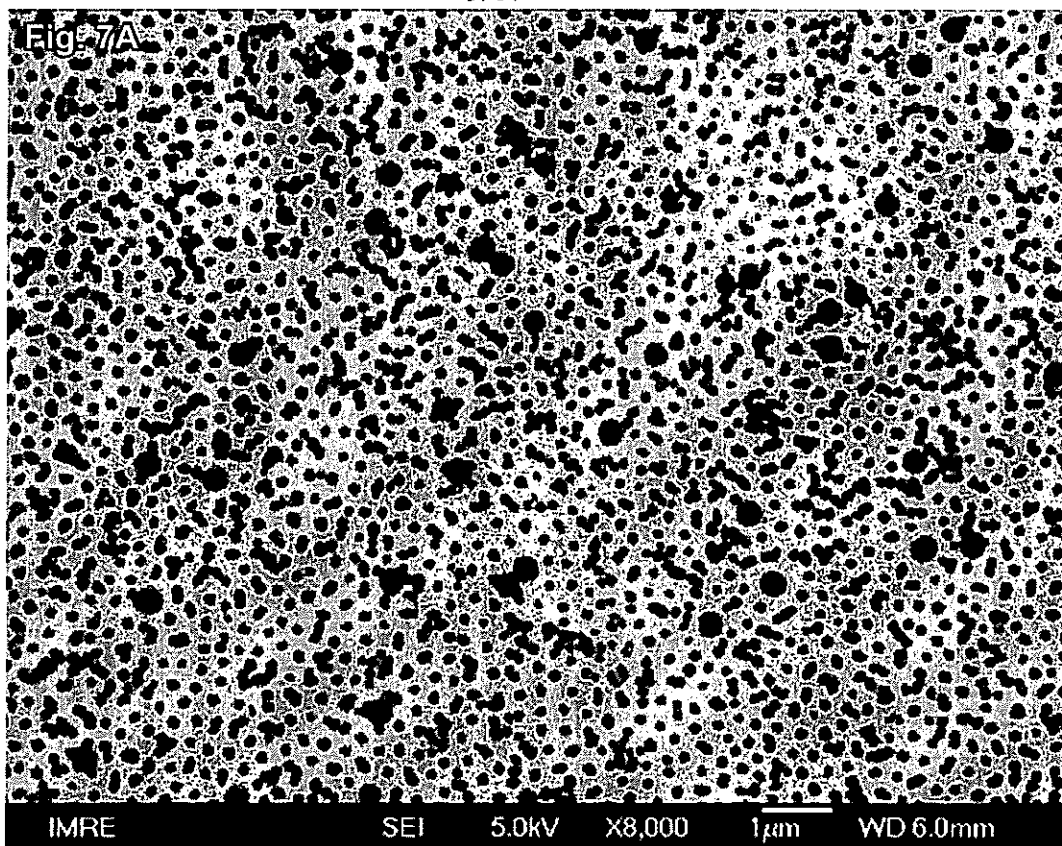
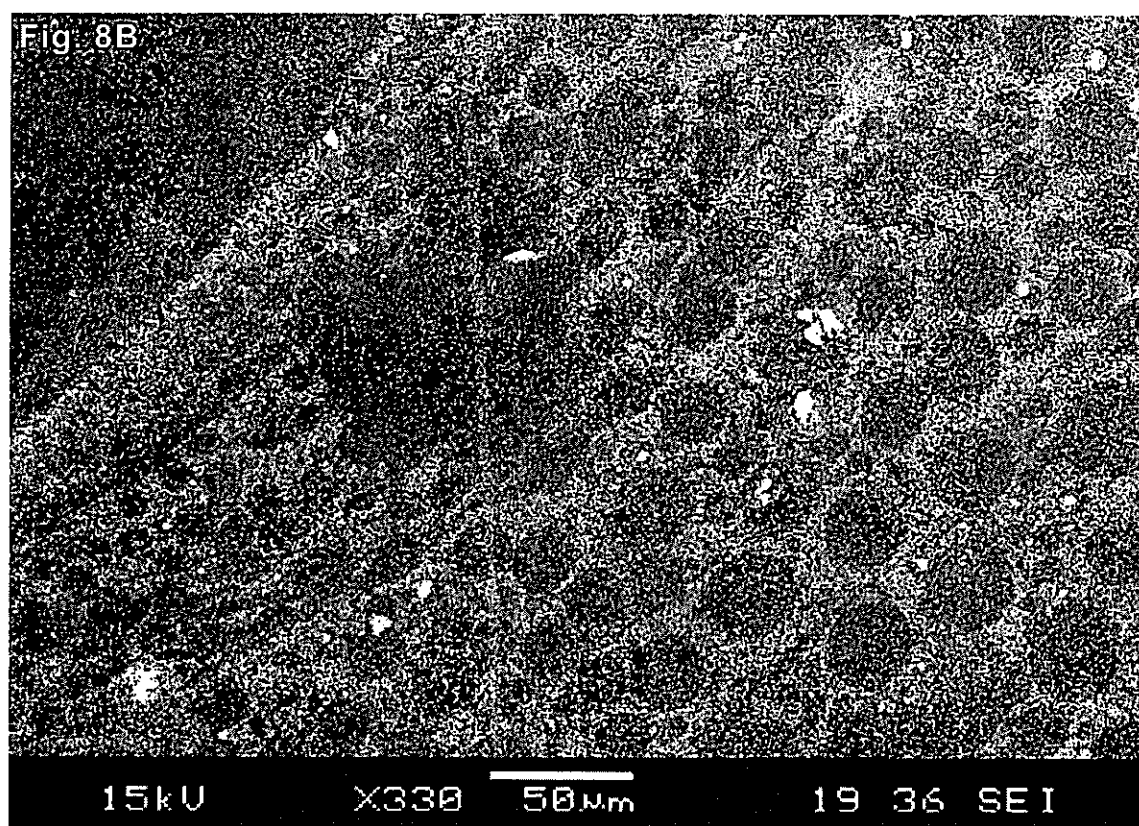
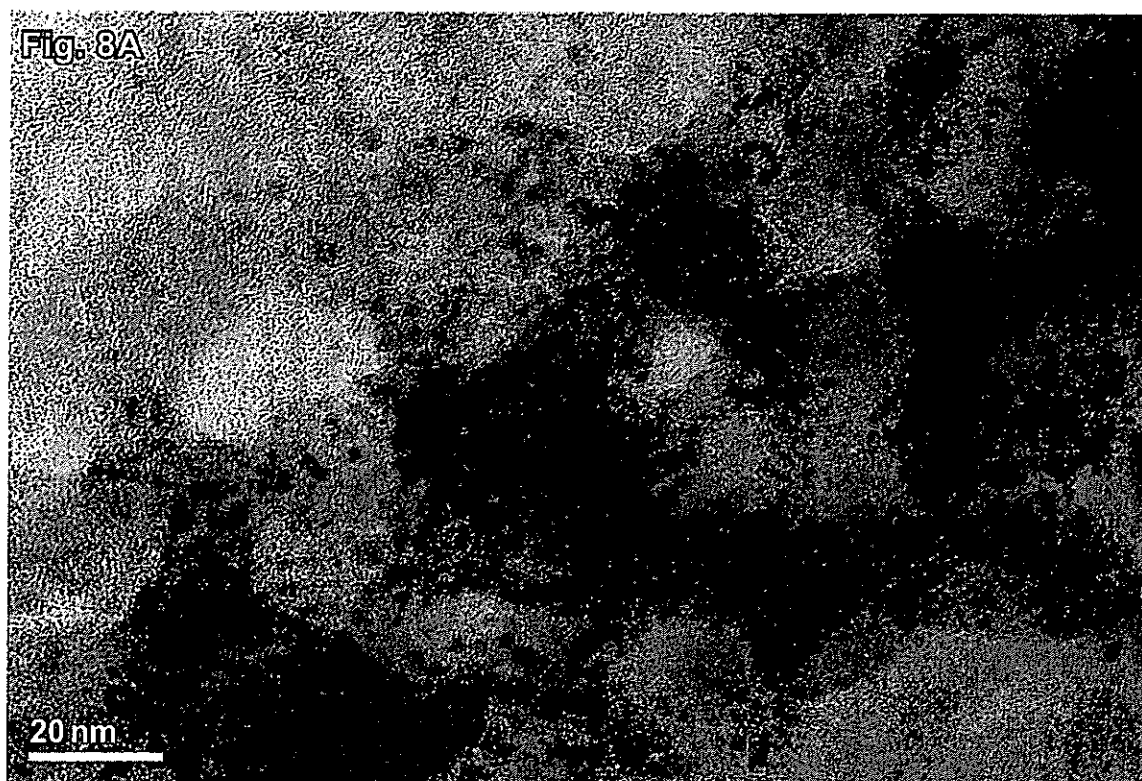


Fig. 6B

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Fig. 9A

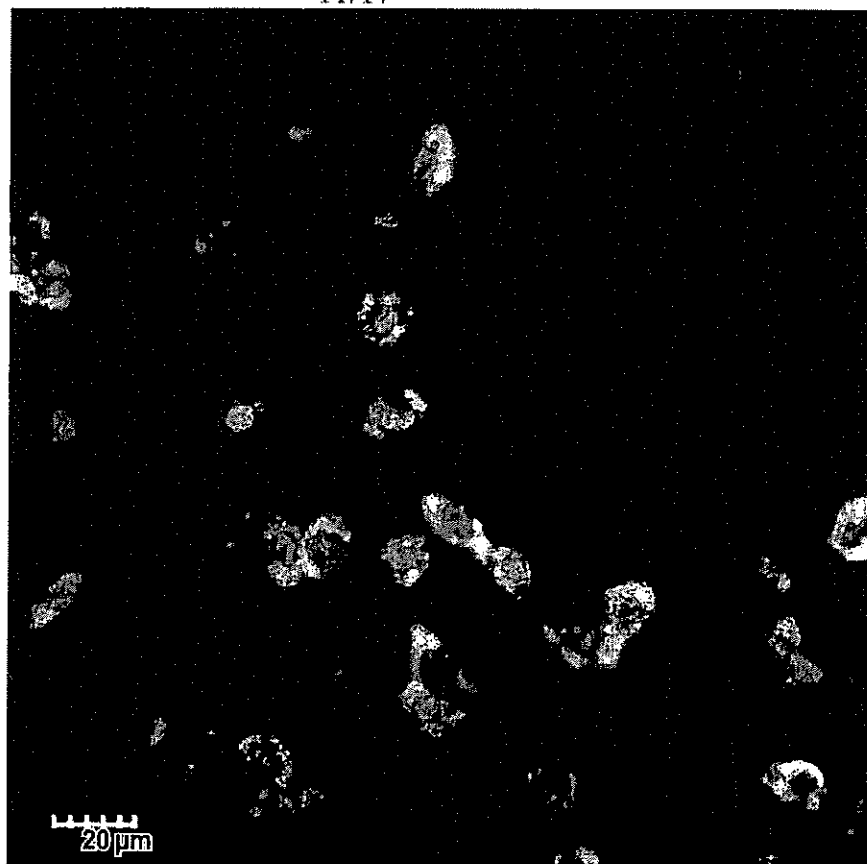
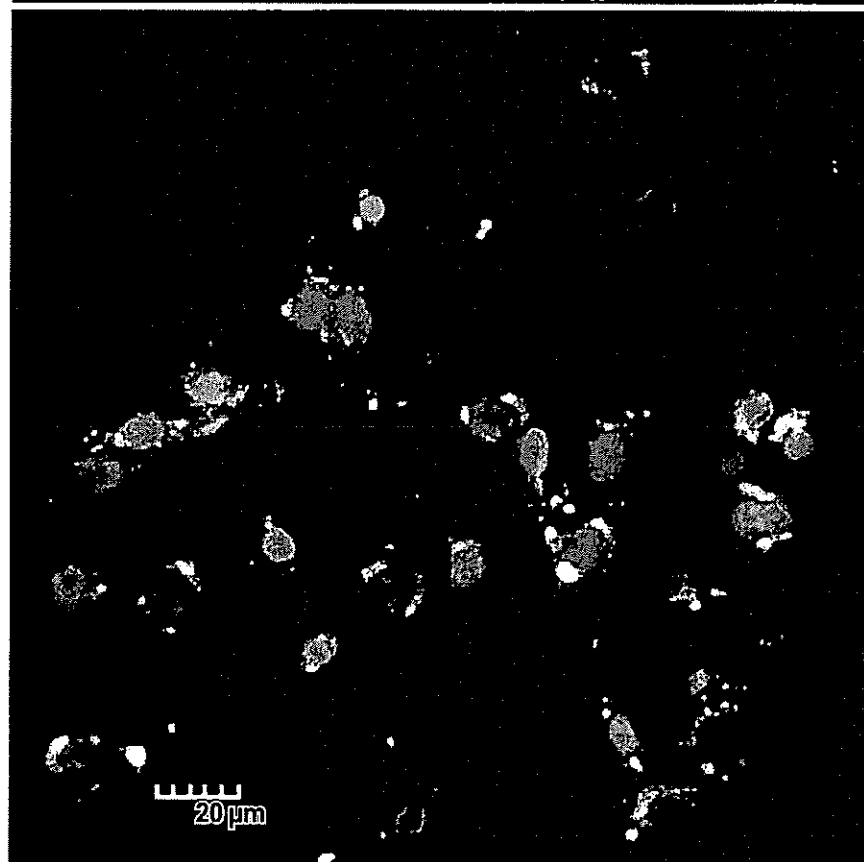
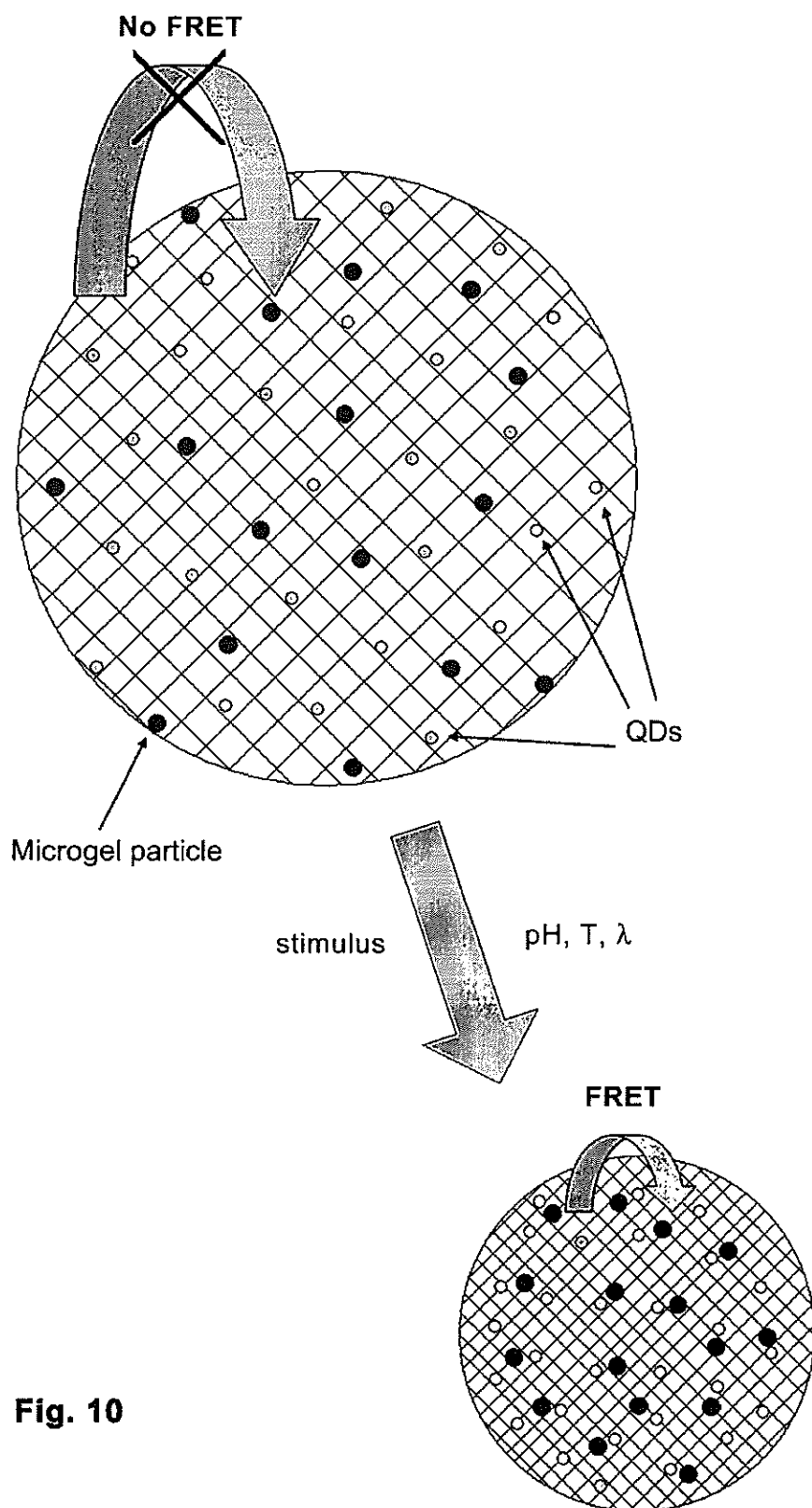
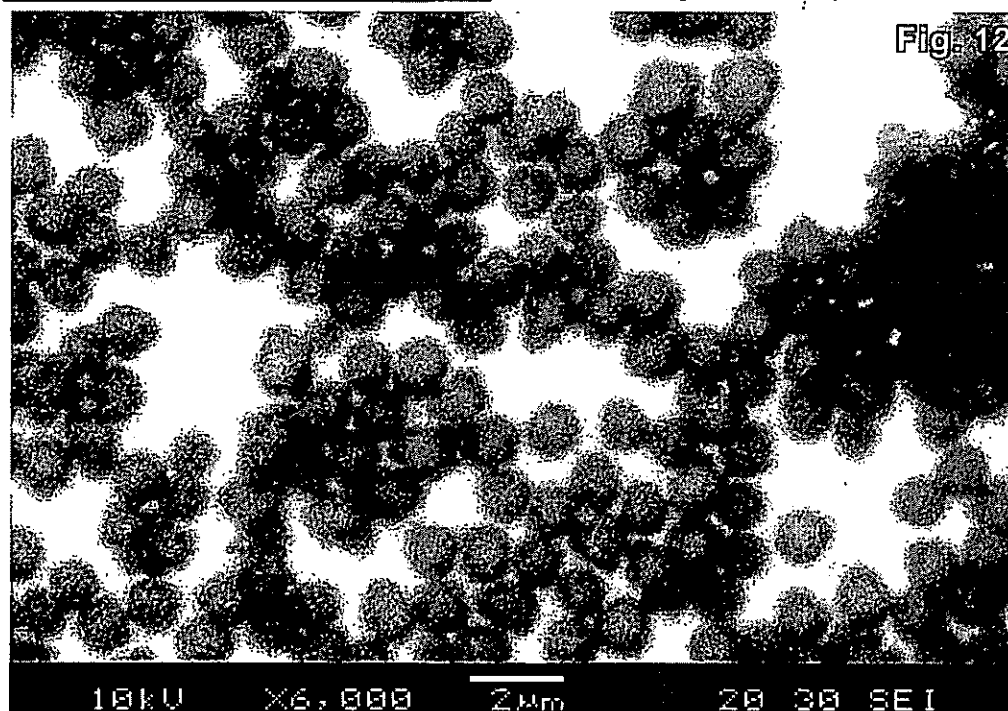
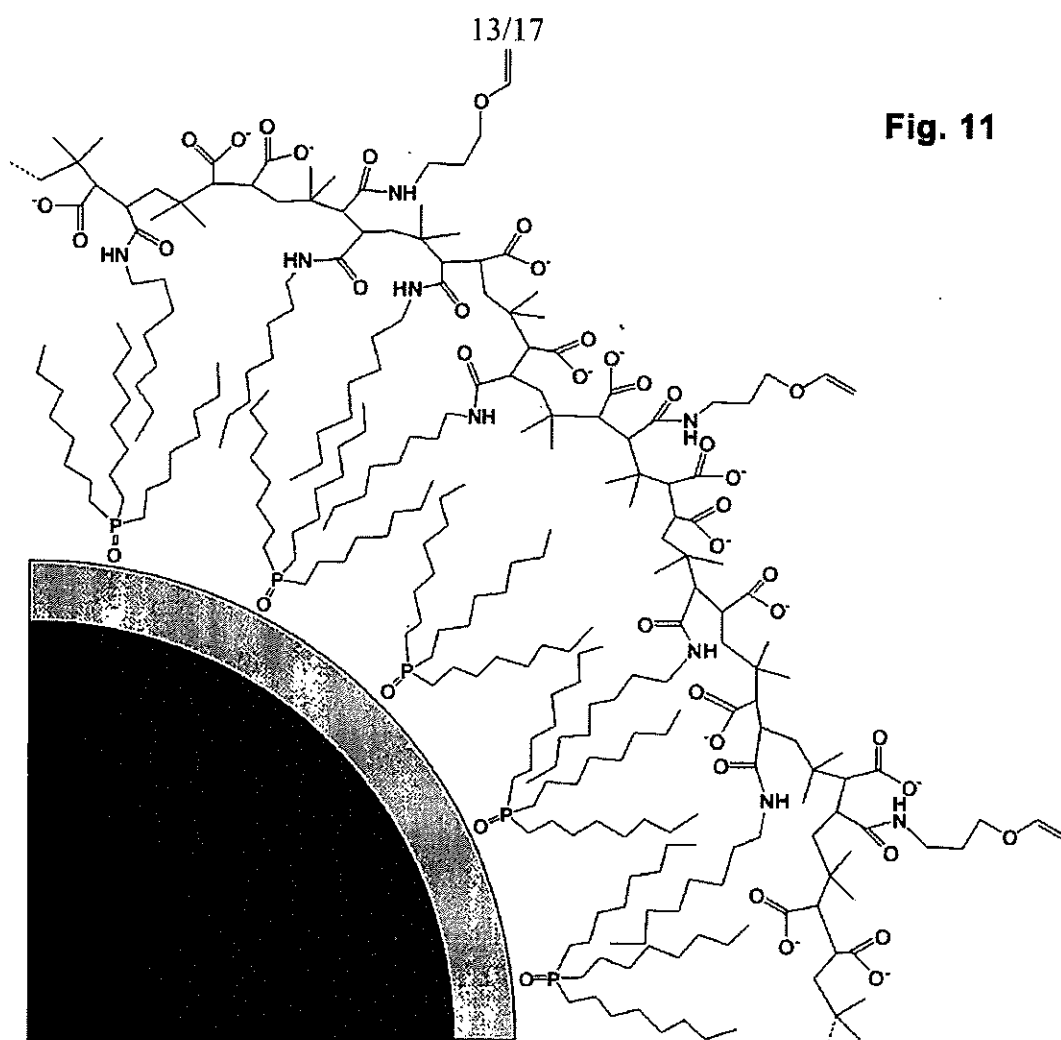


Fig. 9B

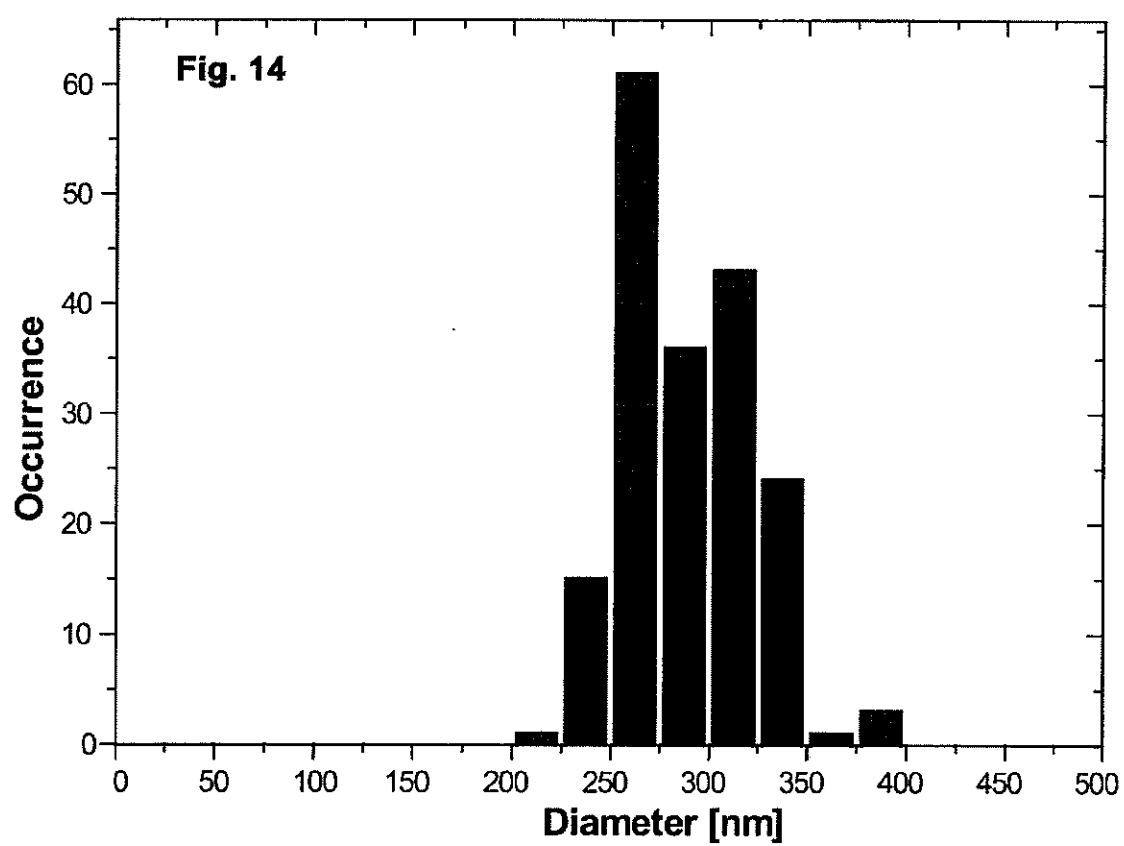
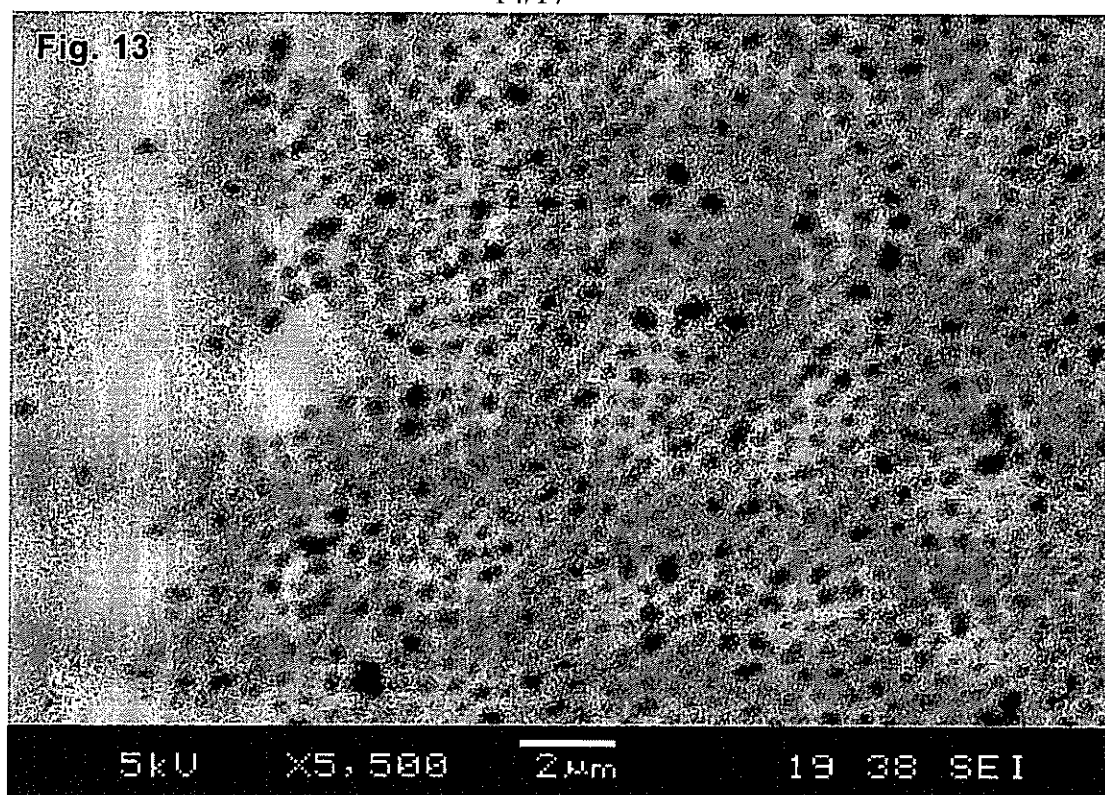


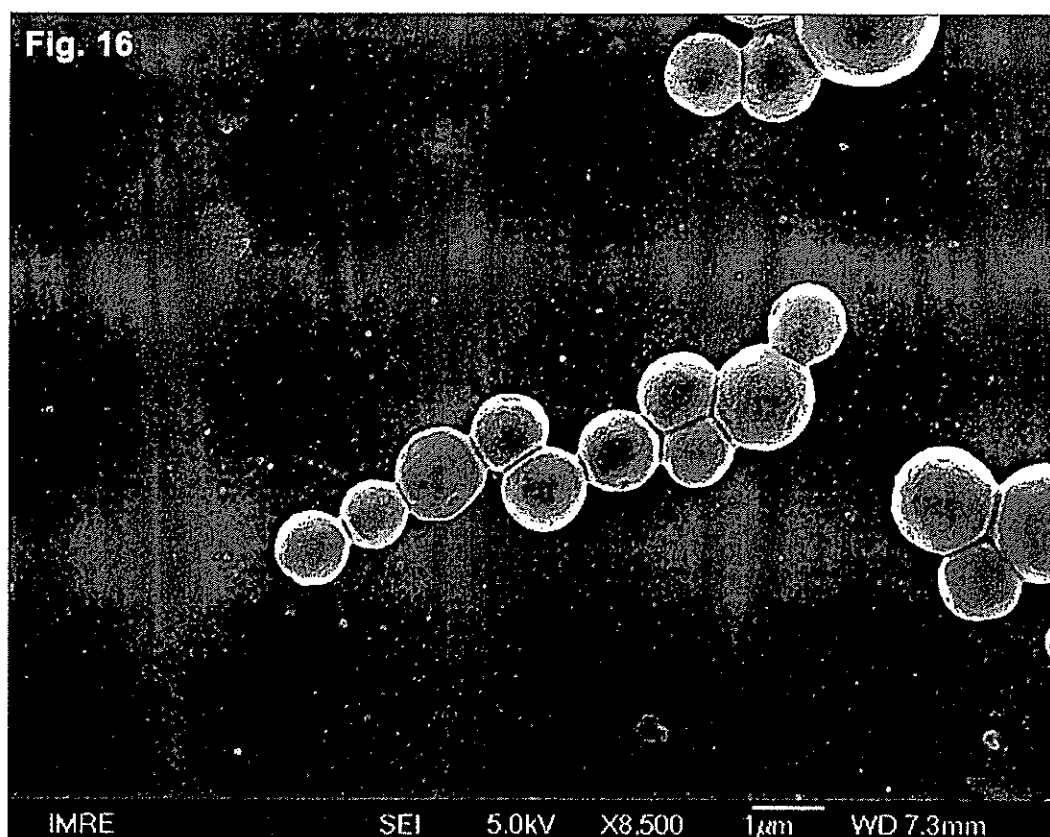
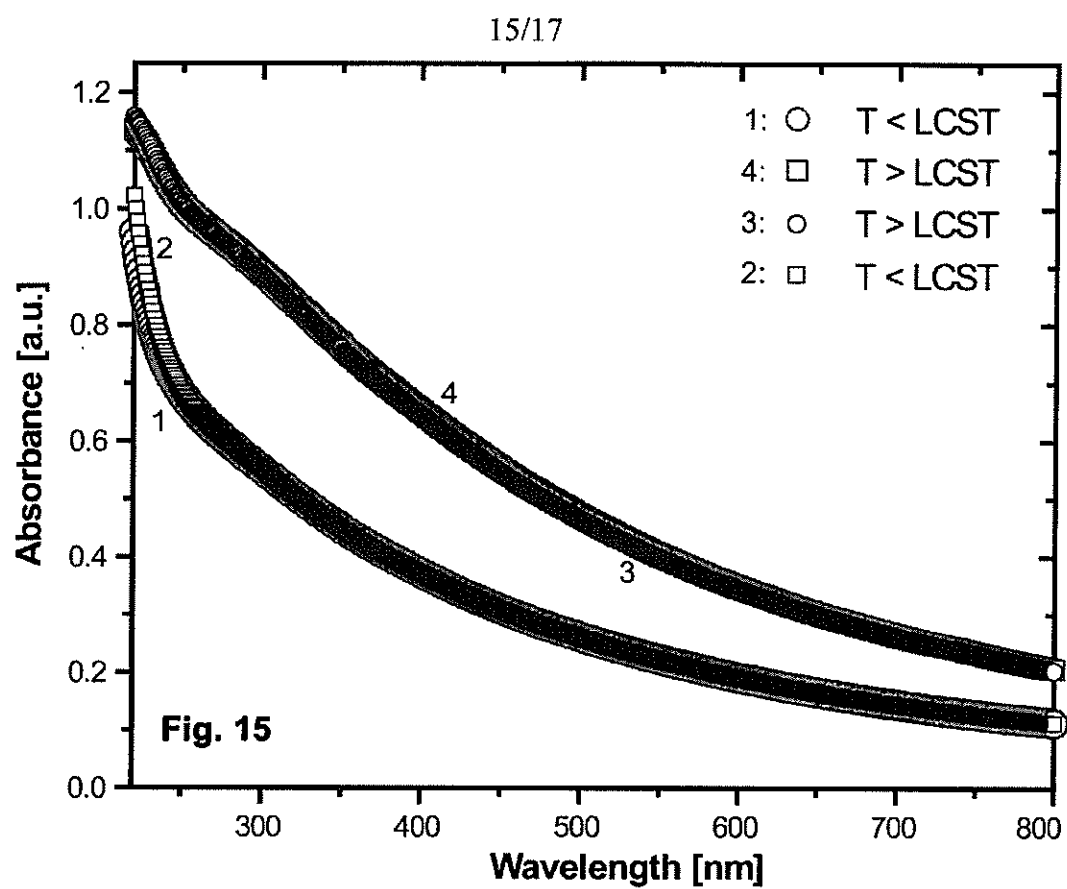
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**Fig. 10**

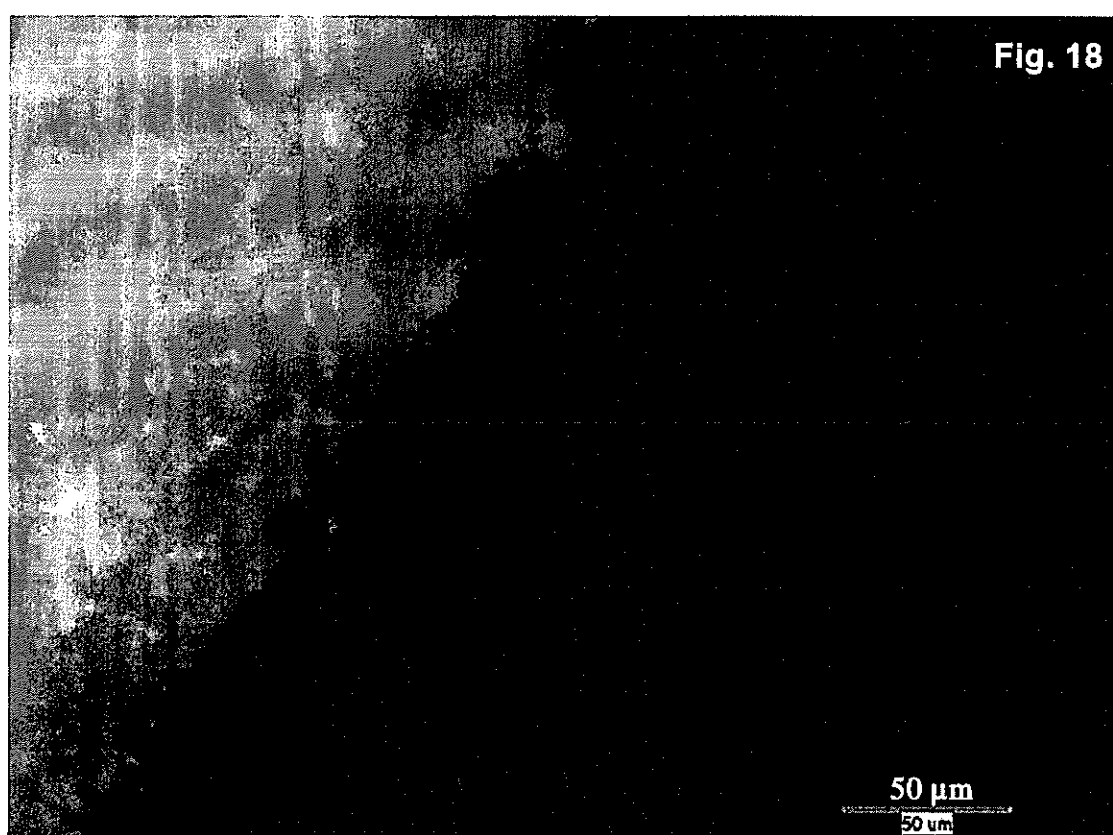
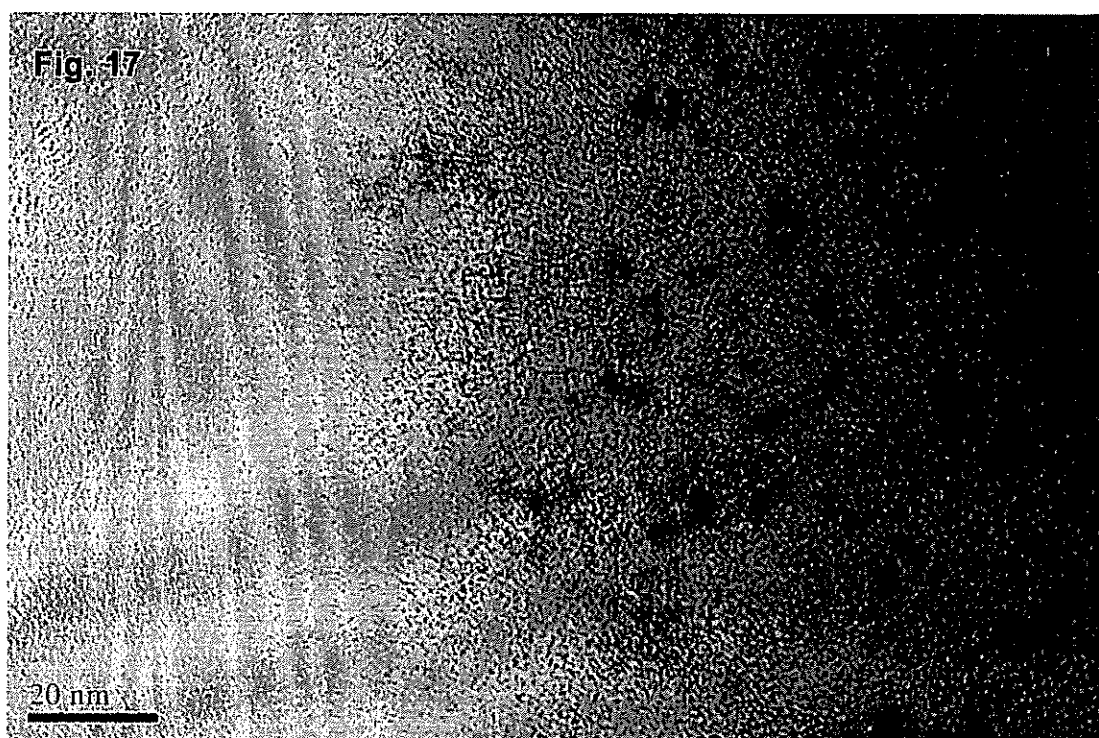


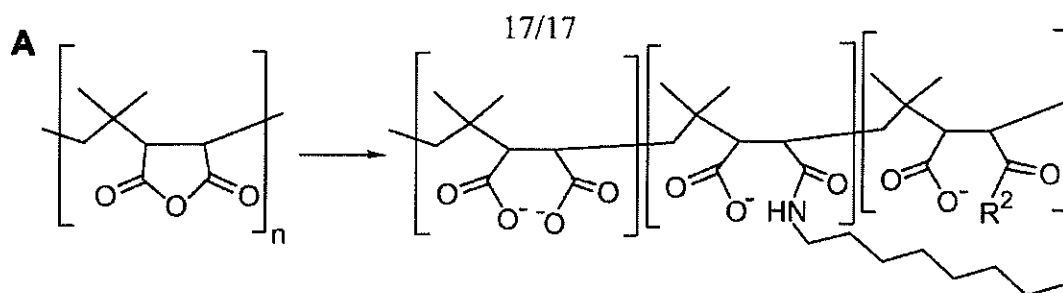
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**Fig. 19** $R^2H =$ **Application:**

B Polyethylene glycol (PEG) chains of various lengths with one or two OH or NH₂ groups e.g.: $HN_2-CH_2CH_2CH_2CH_2-[OCH_2CH_2]_q-OCH_2CH_2CH_2CH_2-NH_2$ $HN_2-CH_2CH_2CH_2CH_2-[OCH_2CH_2]_r-OCH_2CH_2CH_2CH_2-NH_2$	Facilitate water dispersability, increase suspension stability, and repel cell adhesion.
C Various vinyl and acrylic functional units e.g.: $HN_2-CH_2CH_2CH_2CH_2-O-CH=CH_2$ $H_2N-CH_2CH=CH_2$ $H_2N-CH_2CH_2-NH-C(=O)-CH=CH_2$ $HO-CH_2CH_2-O-C(=O)-CH=CH_2$	Polymerization, co-polymerization

Table 1

Polymer	Composition ^a			observed ^b			M _w ^c
	Target						
	CONHC ₈ H ₁₇	COO ⁻	Other	CONHC ₈ H ₁₇	COO ⁻	Other	
1	3%	97%	-	4%	96%	-	9000
2	9%	91%	-	11%	89%	-	9000
3	35%	75%	-	25%	75%	-	10000
4	50%	50%	-	39%	61%	-	11000
5	12%	88%	-	15%	85%	-	95000
6	13%	87%	vinyl – 1%	14%	85%	vinyl – 1%	9100
7	12%	50%	PEG 600 – 48%	15%	55%	PEG 600 – 30%	22000
8	13%	88%	PEG(NH ₂) ₂ 1500 – 5%	14%	81%	PEG(NH ₂) ₂ 1500 – 5%	12000

Table 2

Polymer ^a	Abs. peak [nm]	Absorbance	QD conc. x 10 ⁻⁷ M
1	580	0.06	2.84
2	580	0.10	4.95
3	580	0.11	5.24
4	577	0.20	10.5
5	570	0.02	1.16