Fig. 1

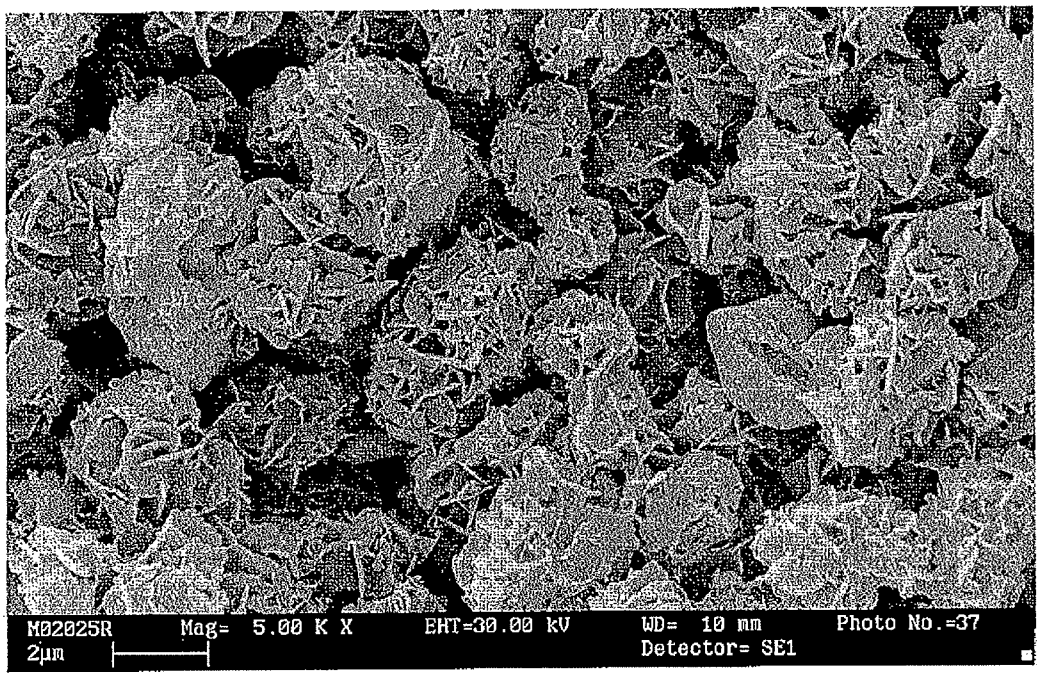

M02025R Mag= 5.00 K X EHT=30.00 kV WD= 10 mm Photo No.=37
2µm
Detector= SE1

Fig. 2

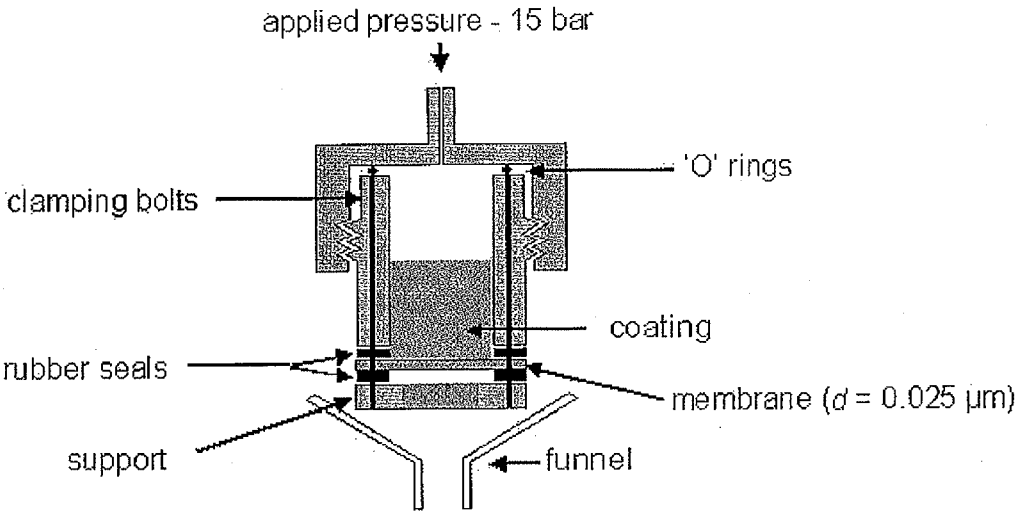

applied pressure - 15 bar
'O' rings
clamping bolts
coating
rubber seals
membrane (d = 0.025 µm)
support
funnel

Fig. 3

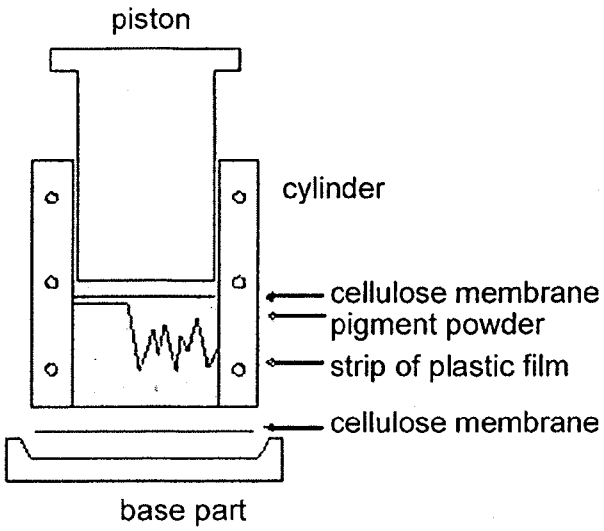

piston
cylinder
cellulose membrane
pigment powder
strip of plastic film
cellulose membrane
base part

Fig. 4

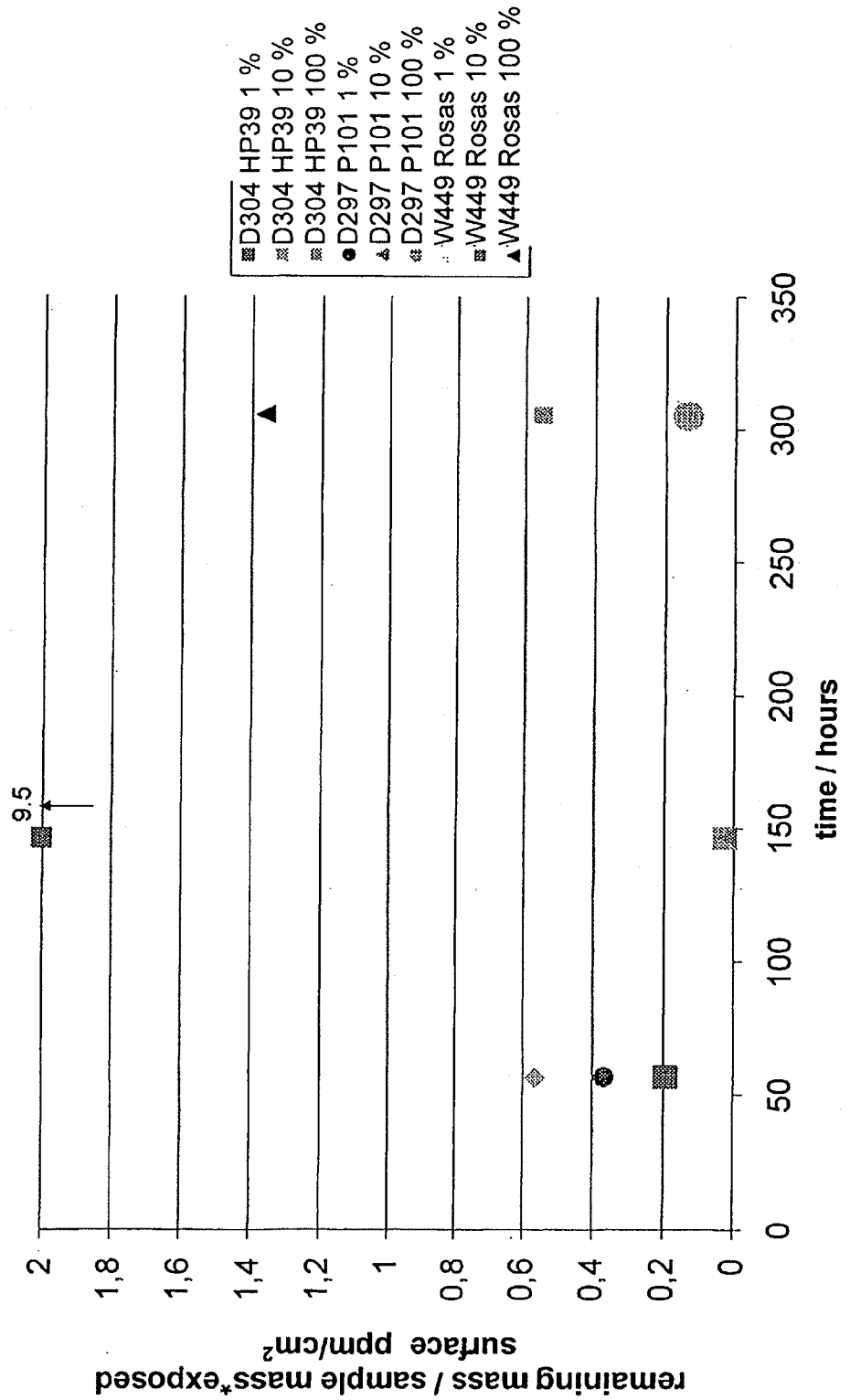
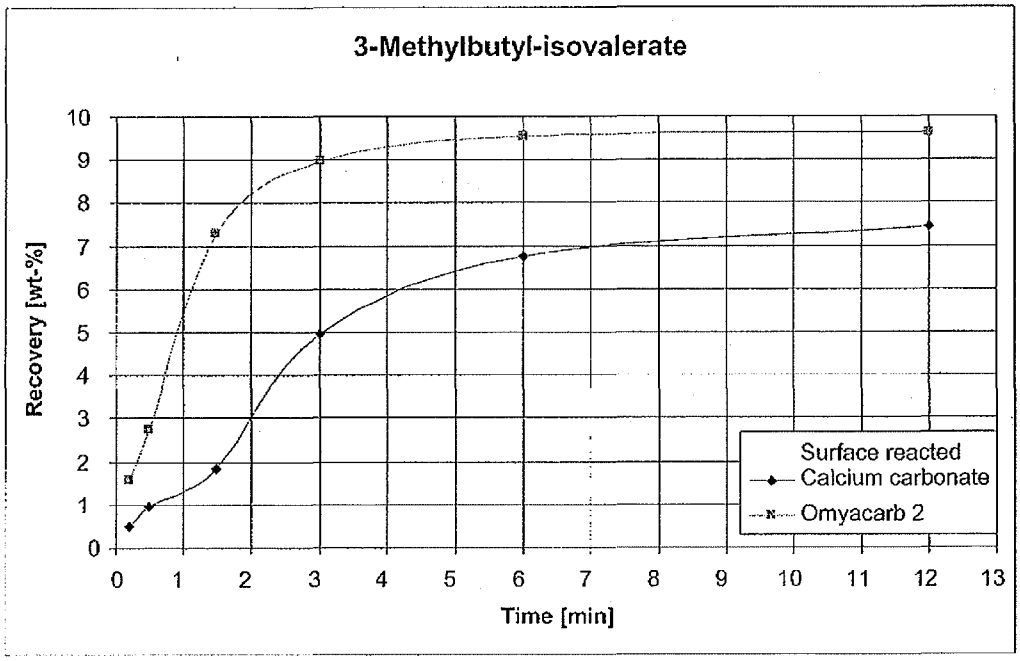

D304 HP39 1 %
D304 HP39 10 %
D304 HP39 100 %
D297 P101 1 %
D297 P101 10 %
D297 P101 100 %
W449 Rosas 1 %
W449 Rosas 10 %
W449 Rosas 100 %
9,5
0
50
100
150
200
250
300
350
time / hours
2
1,8
1,6
1,4
1,2
1
0,8
0,6
0,4
0,2
0
remaining mass / sample mass*exposed surface ppm/cm²

Fig. 5


3-Methylbutyl-isovalerate
Recovery [wt-%]
Time [min]
0
1
2
3
4
5
6
7
8
9
10
11
12
13
Surface reacted Calcium carbonate
Omyacarb 2