FIG. 1

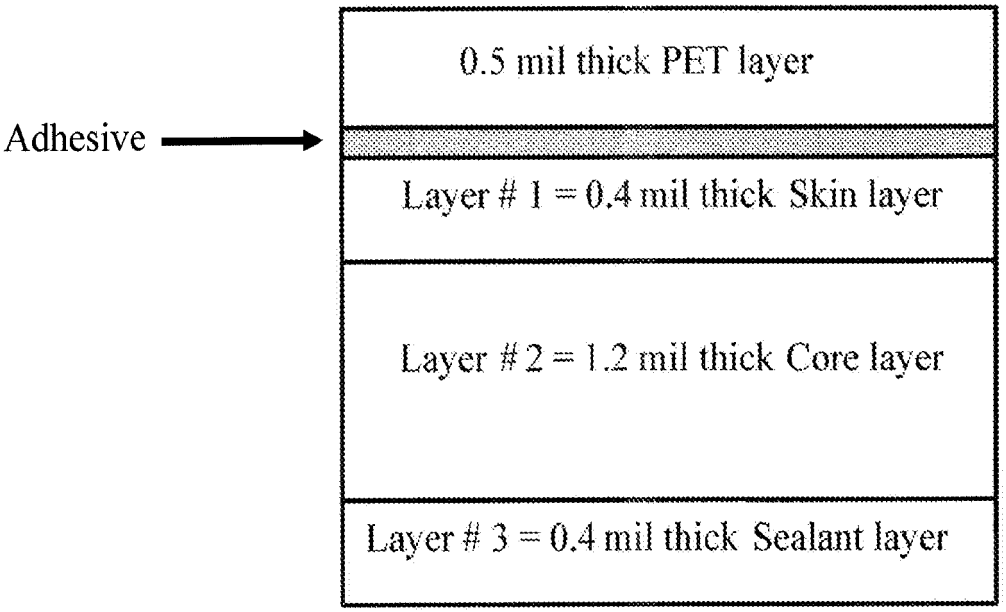

0.5 mil thick PET layer
Adhesive
Layer # 1 = 0.4 mil thick Skin layer
Layer # 2 = 1.2 mil thick Core layer
Layer # 3 = 0.4 mil thick Sealant layer

FIG. 2

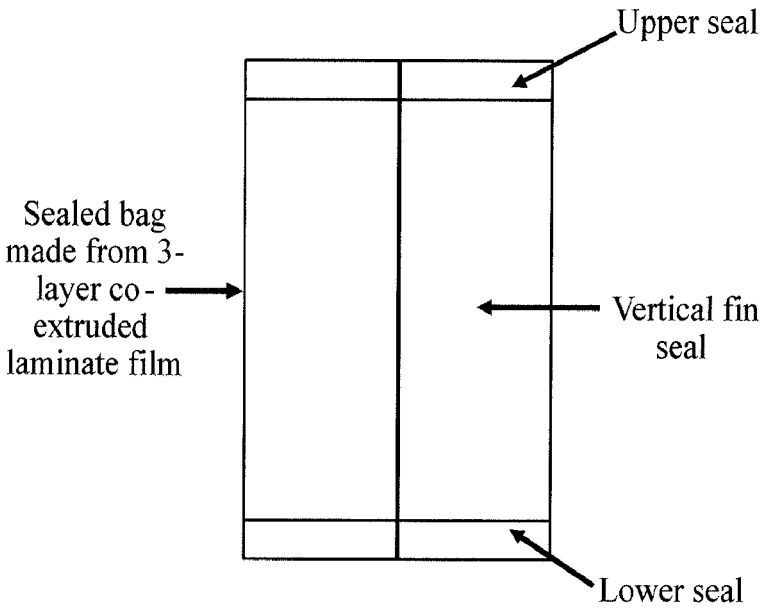

Upper seal
Sealed bag made from 3-layer co-extruded laminate film
Vertical fin seal
Lower seal

FIG. 3A

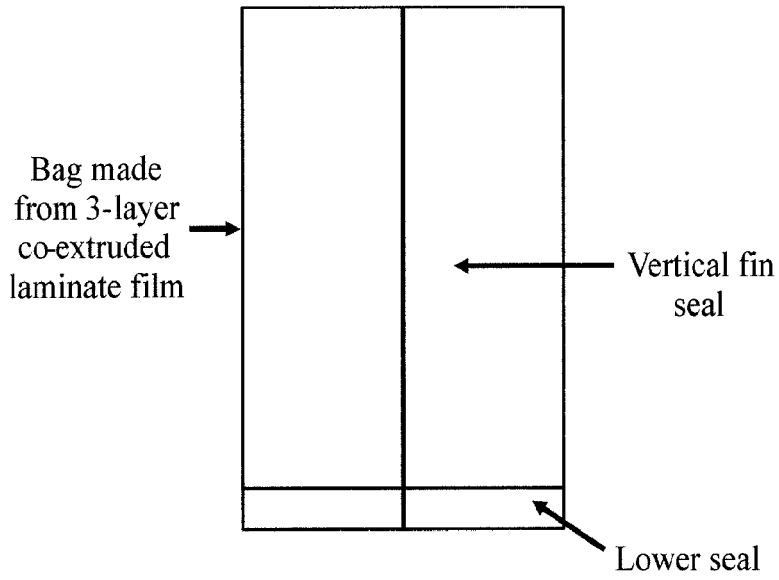

Bag made from 3-layer co-extruded laminate film
Vertical fin seal
Lower seal

FIG. 3B

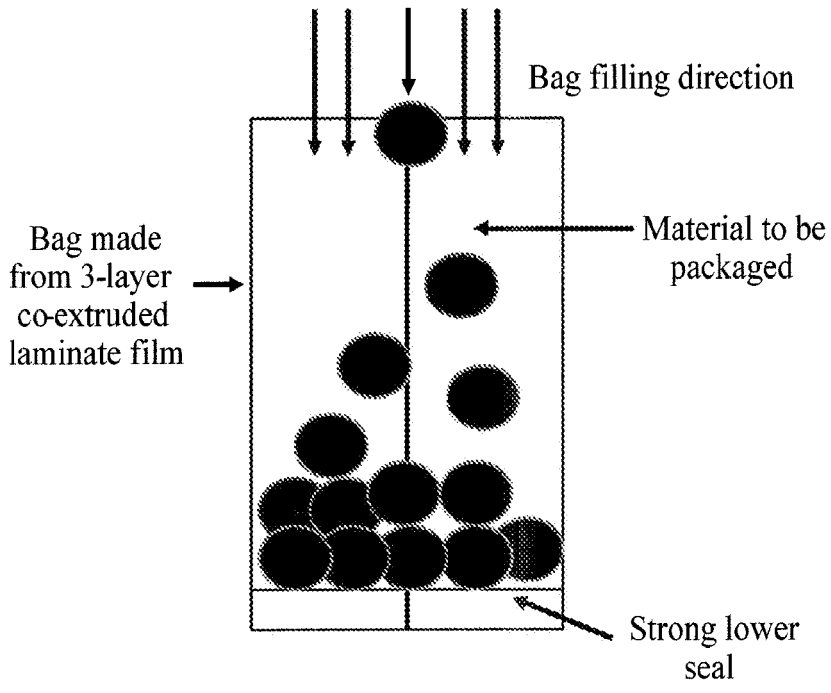

Bag filling direction
Material to be packaged
Bag made from 3-layer co-extruded laminate film
Strong lower seal

FIG. 3C

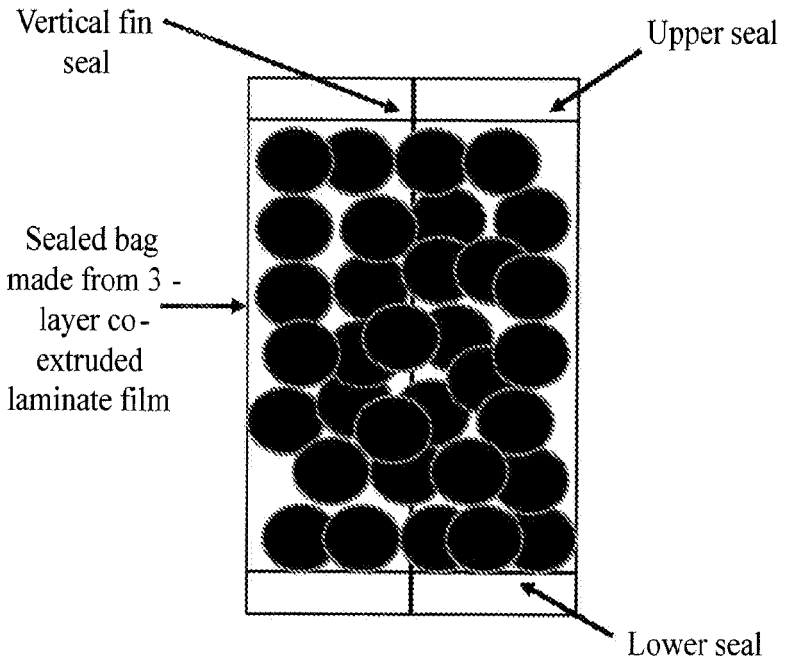

Vertical fin seal
Upper seal
Sealed bag made from 3 - layer co - extruded laminate film
Lower seal

FIG. 4

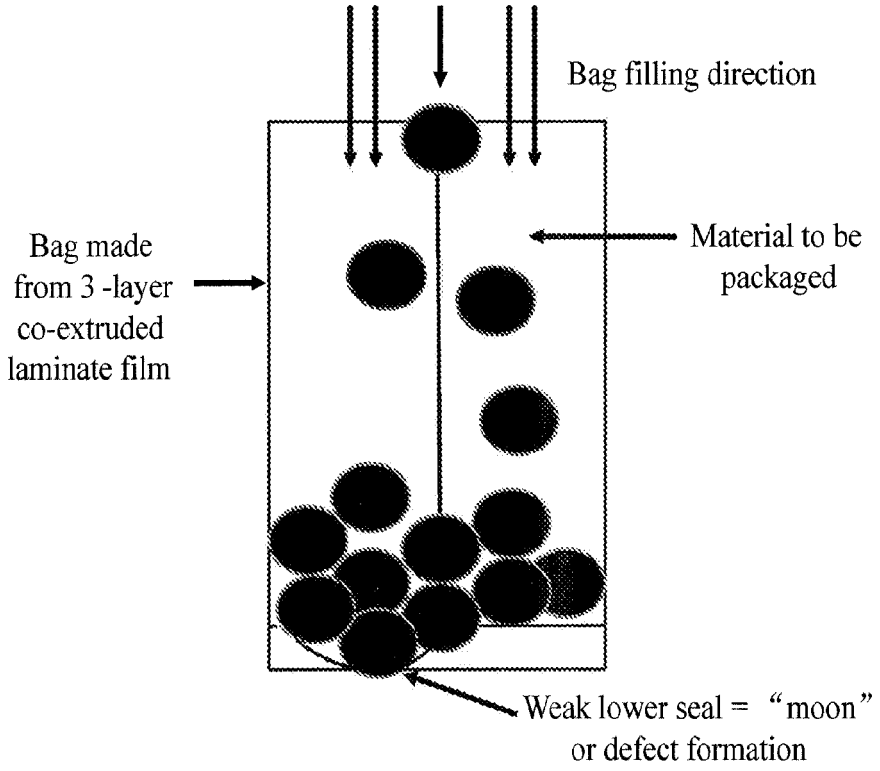

Bag filling direction
Material to be packaged
Bag made from 3 -layer co-extruded laminate film
Weak lower seal = "moon" or defect formation

FIG. 5

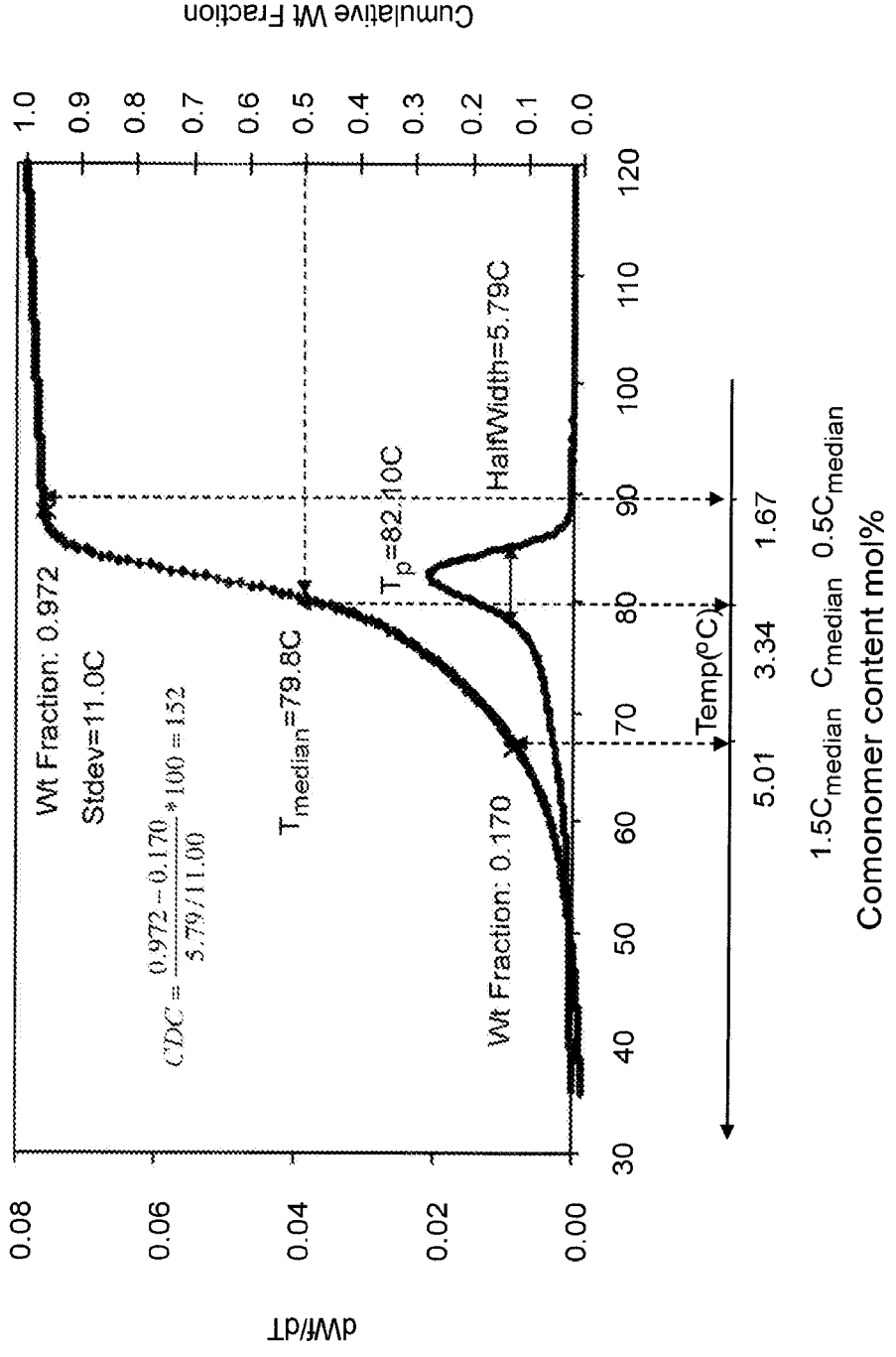

Cumulative Wt Fraction
dWf/dT
Wt Fraction: 0.972
Stdev=11.0C
$CDC = \frac{0.972 - 0.170}{5.79/11.00} * 100 = 152$
T_{median}=79.8C
T_p=82.10C
HalfWidth=5.79C
Wt Fraction: 0.170
Temp(°C)
5.01 3.34 1.67
$1.5C_{median}$ C_{median} $0.5C_{median}$
Comonomer content mol%

FIG. 6

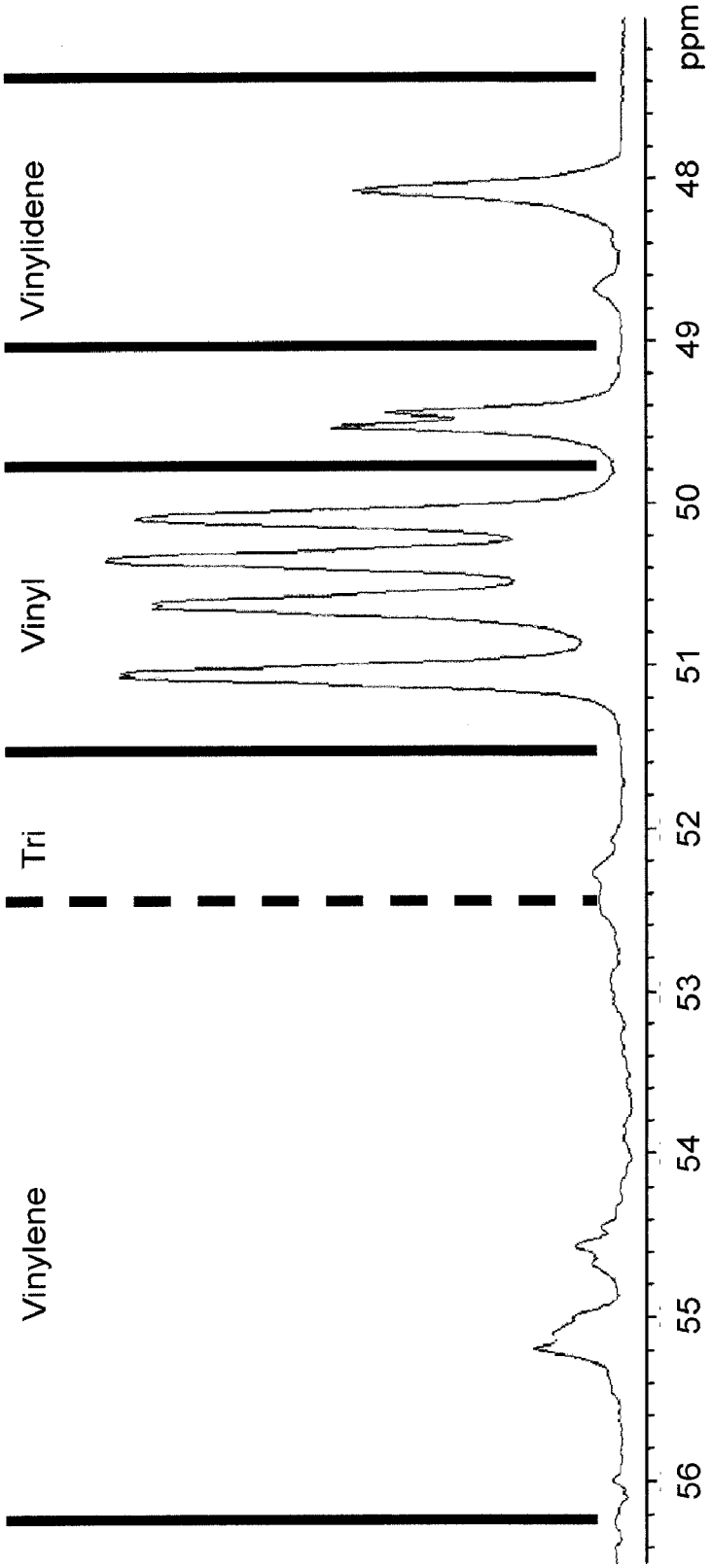


FIG. 7

```
;lc1prf2_zz

prosol relations=<lcnmr>

#include <Avance.incl>


"d12=20u"
"d11=4u"

1 ze
  d12 pl21:f2
2 30m
  d13
  d12 pl9:f1
  d1 cw:f1 ph29 cw:f2 ph29
  d11 do:f1 do:f2
  d12 pl1:f1
  p1 ph1
  go=2 ph31
  30m mc #0 to 2 F0(zd)
exit

ph1=0 2 2 0 1 3 3 1
ph29=0
ph31=0 2 2 0 1 3 3 1
```

FIG. 8

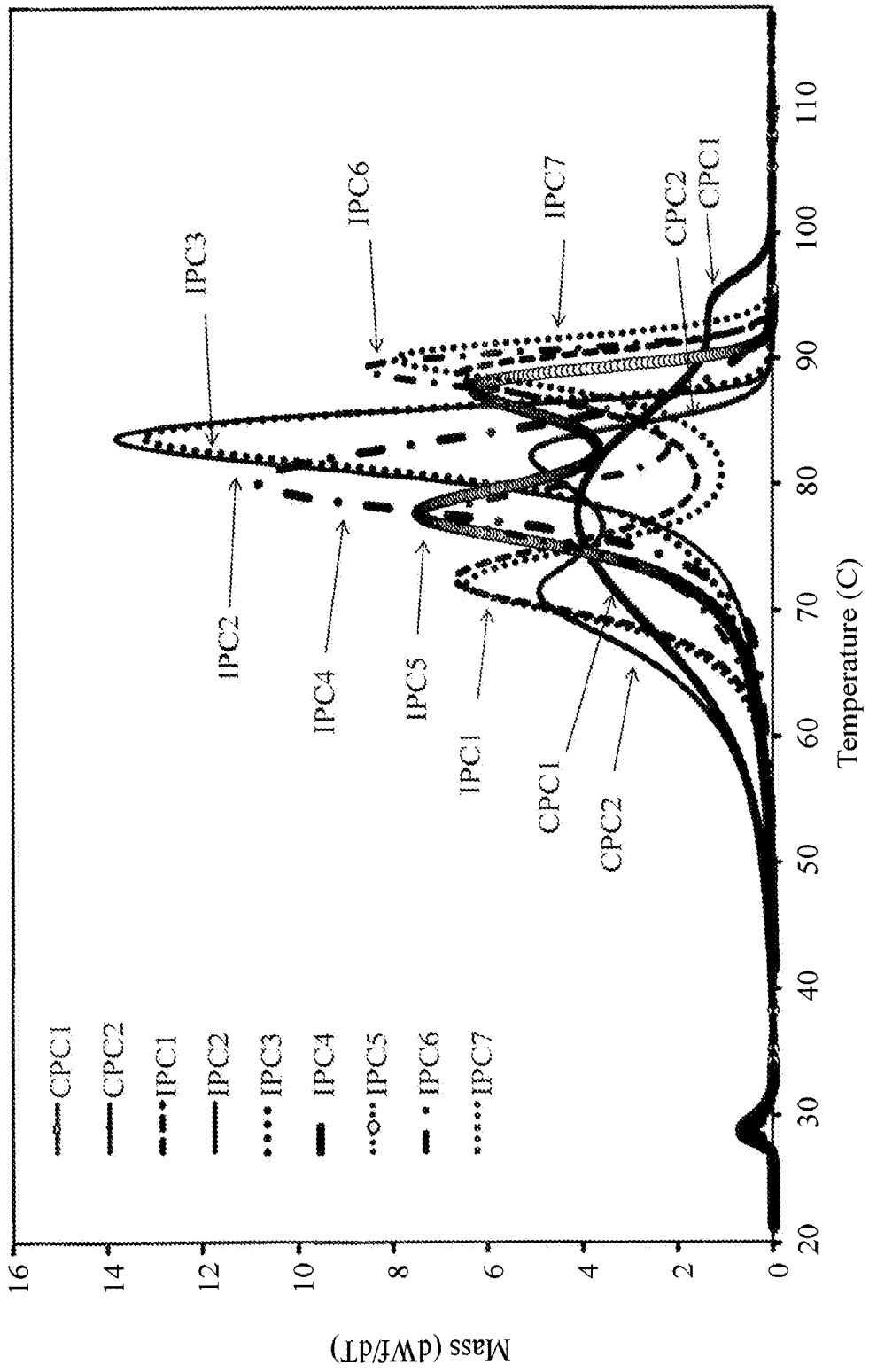
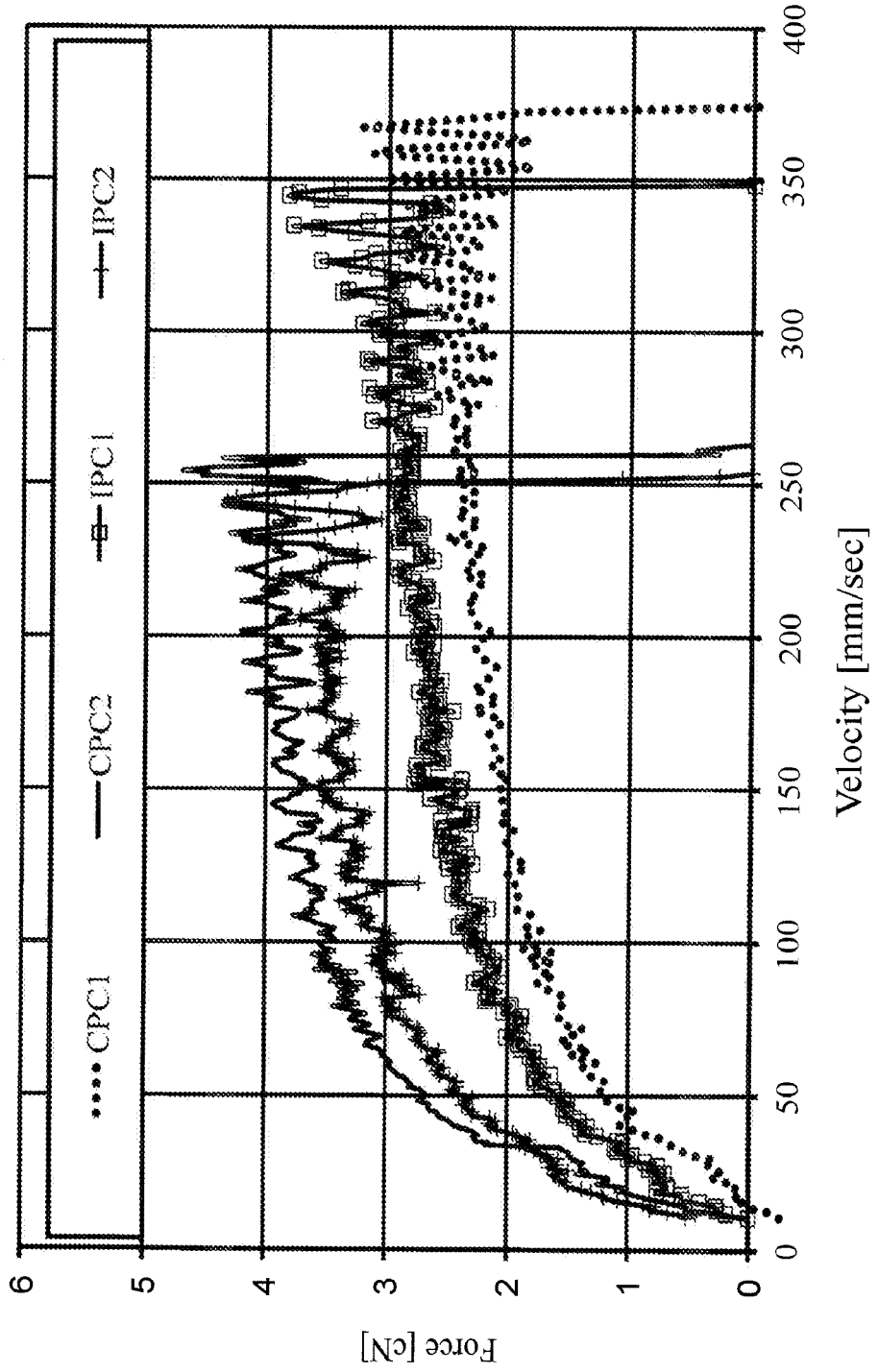

CPC1
CPC2
IPC1
IPC2
IPC3
IPC4
IPC5
IPC6
IPC7
Mass (dWf/dT)
Temperature (C)
0
2
4
6
8
10
12
14
16
20
30
40
50
60
70
80
90
100
110

FIG. 9


CPC1
CPC2
IPC1
IPC2
Force [cN]
Velocity [mm/sec]
0
1
2
3
4
5
6
0
50
100
150
200
250
300
350
400