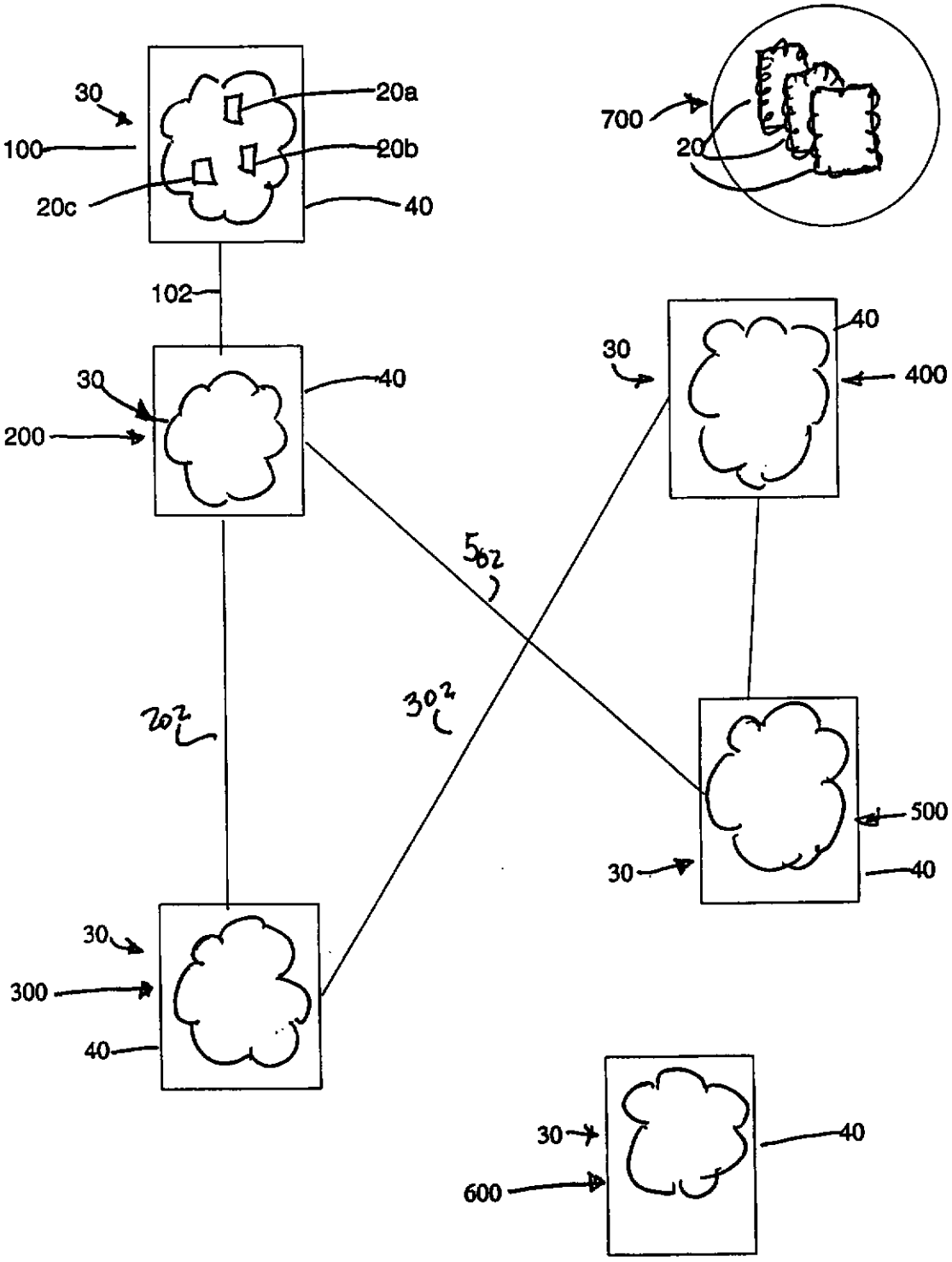

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20b
20c
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102
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202
302
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30
40
600

FIGURE 1

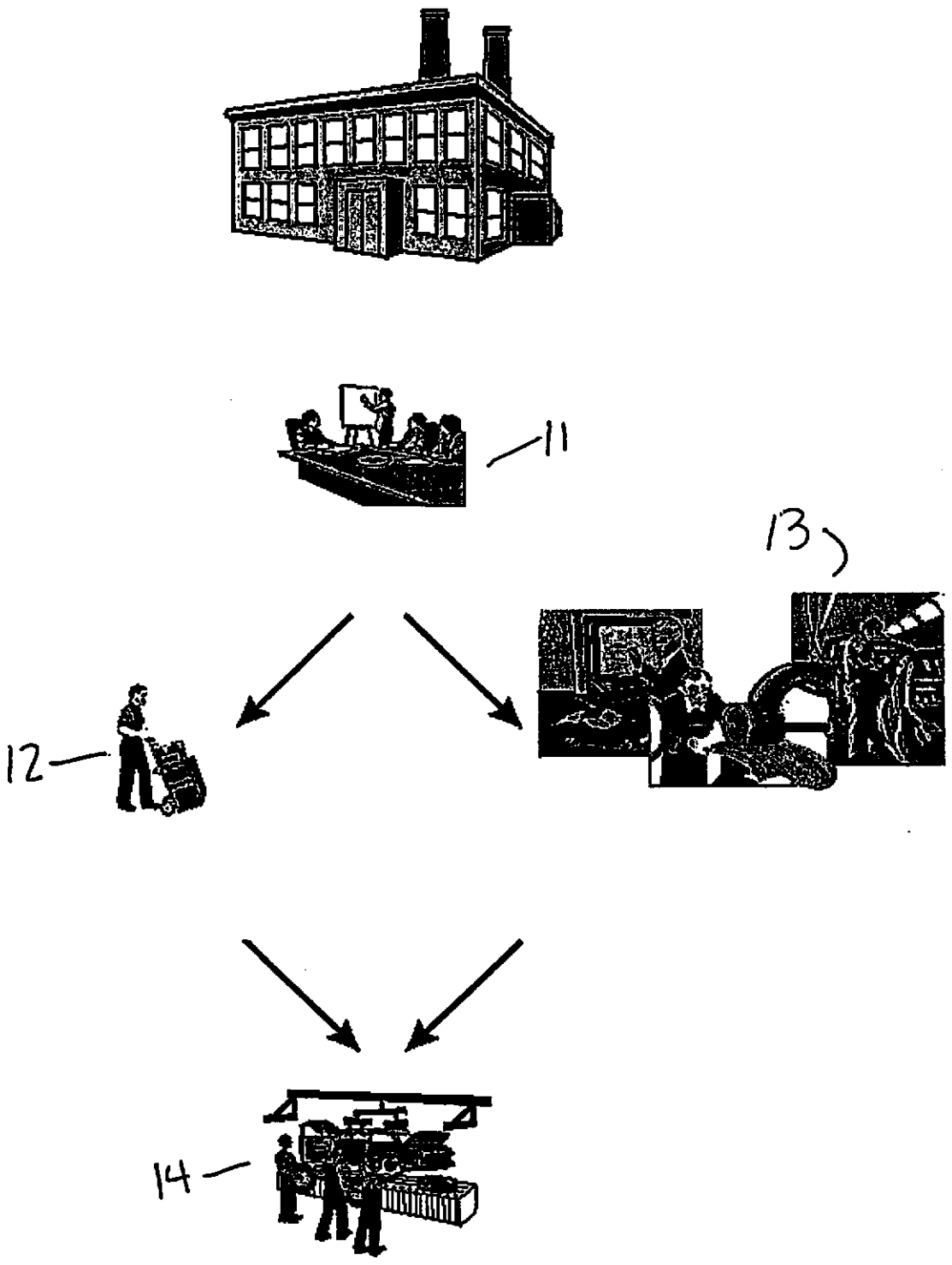


FIGURE 2

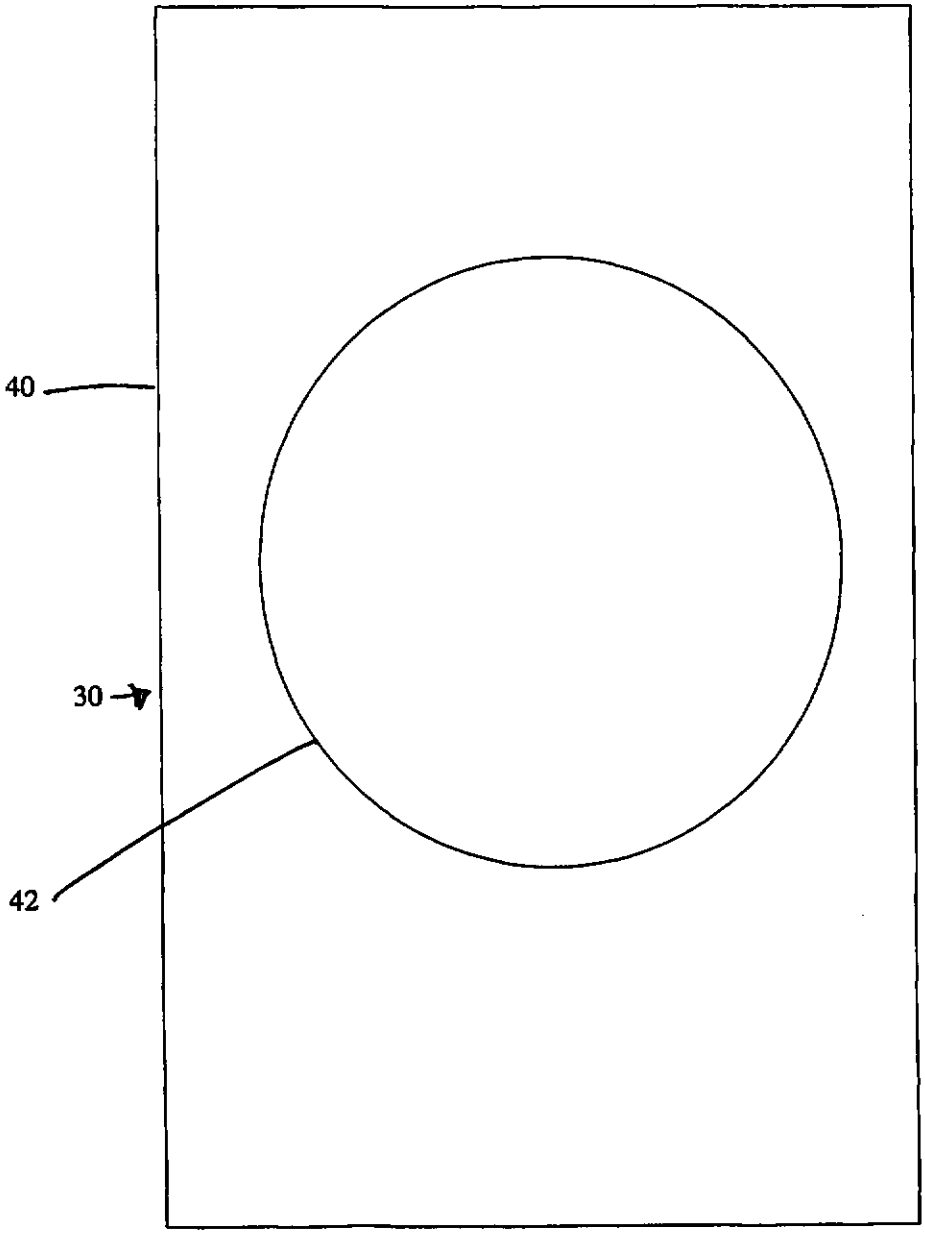


FIGURE 3

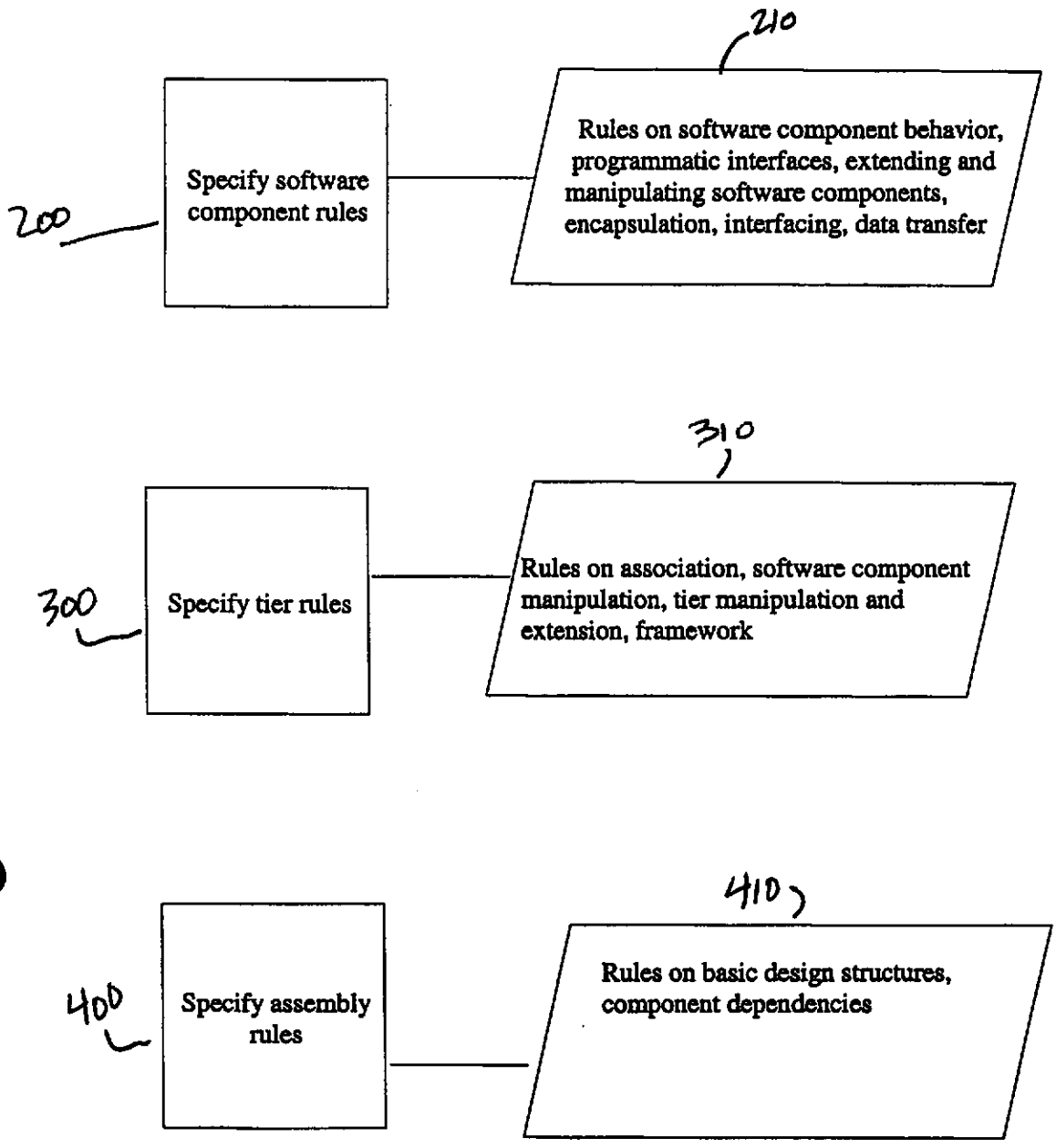

210
Specify software component rules
200
Rules on software component behavior, programmatic interfaces, extending and manipulating software components, encapsulation, interfacing, data transfer
310
Specify tier rules
300
Rules on association, software component manipulation, tier manipulation and extension, framework
410
Specify assembly rules
400
Rules on basic design structures, component dependencies

FIGURE 4

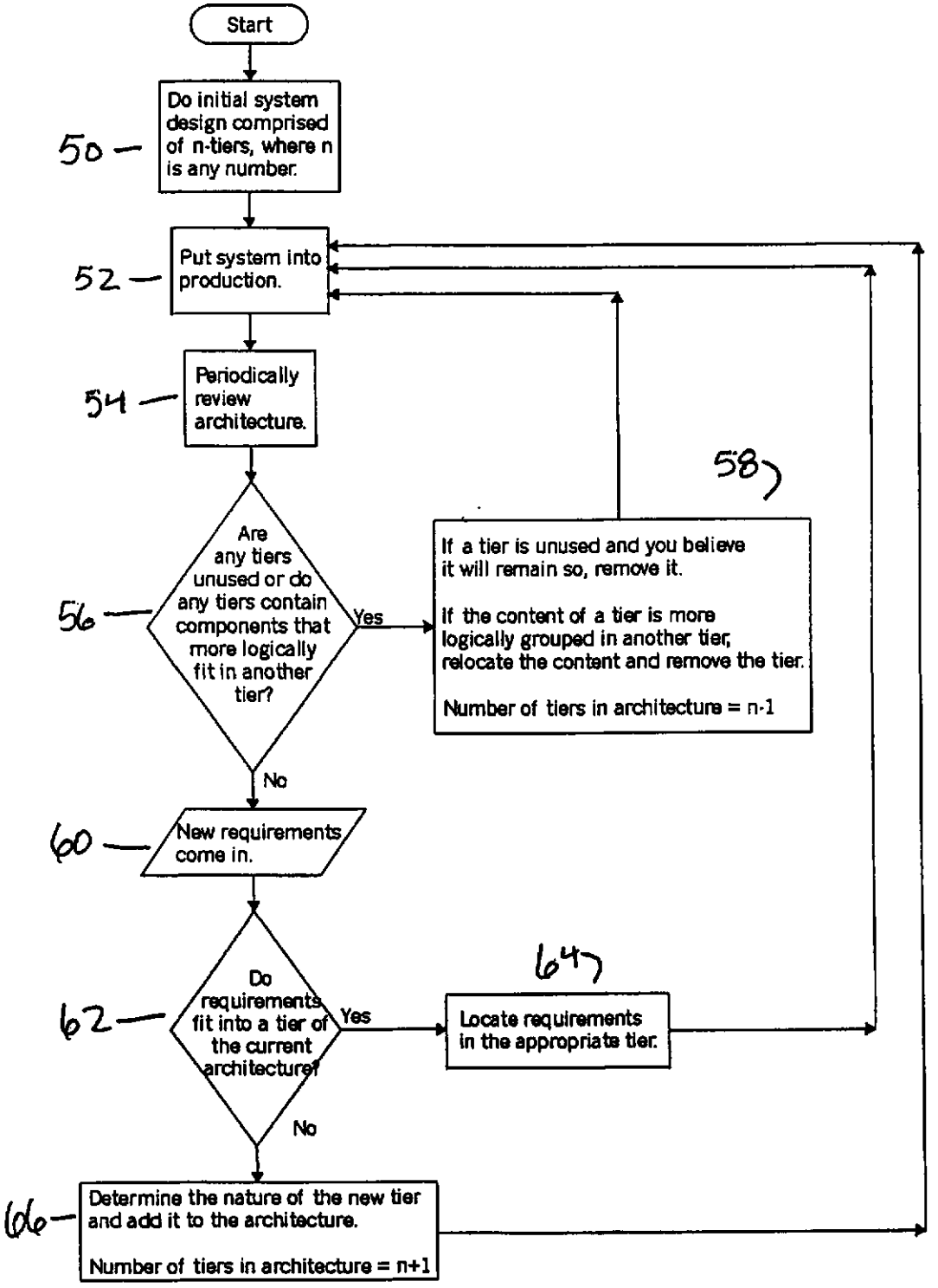

Start
Do initial system design comprised of n-tiers, where n is any number.
50
Put system into production.
52
Periodically review architecture.
54
Are any tiers unused or do any tiers contain components that more logically fit in another tier?
56
Yes
If a tier is unused and you believe it will remain so, remove it.
If the content of a tier is more logically grouped in another tier, relocate the content and remove the tier.
Number of tiers in architecture = n-1
58
No
New requirements come in.
60
Do requirements fit into a tier of the current architecture?
62
Yes
Locate requirements in the appropriate tier.
64
No
Determine the nature of the new tier and add it to the architecture.
Number of tiers in architecture = n+1
66

FIGURE 5

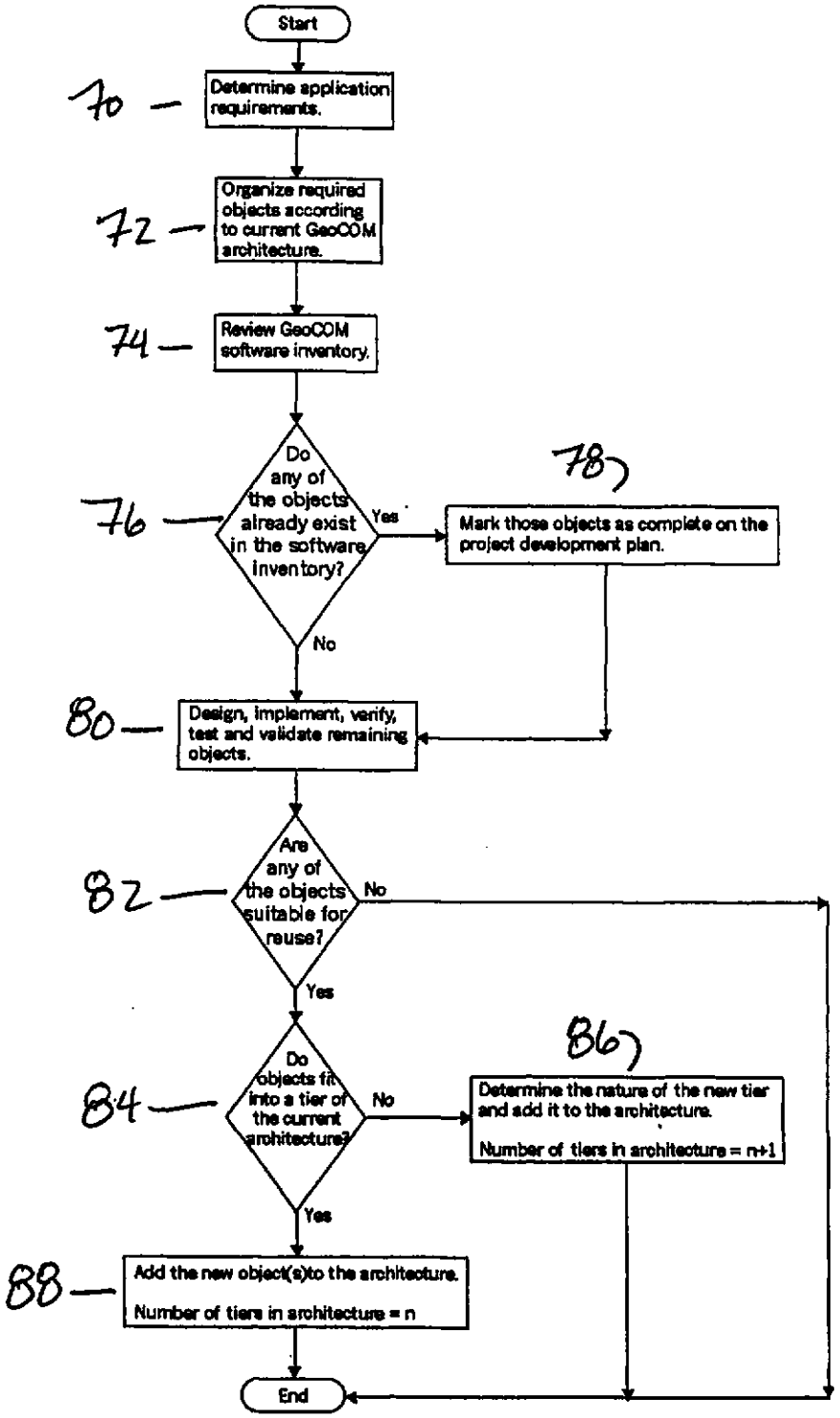

Start
70
Determine application requirements.
72
Organize required objects according to current GeoCOM architecture.
74
Review GeoCOM software inventory.
76
Do any of the objects already exist in the software inventory?
Yes
78
Mark those objects as complete on the project development plan.
No
80
Design, implement, verify, test and validate remaining objects.
82
Are any of the objects suitable for reuse?
No
Yes
84
Do objects fit into a tier of the current architecture?
No
86
Determine the nature of the new tier and add it to the architecture.
Number of tiers in architecture = n+1
Yes
88
Add the new object(s)to the architecture.
Number of tiers in architecture = n
End

FIGURE 6

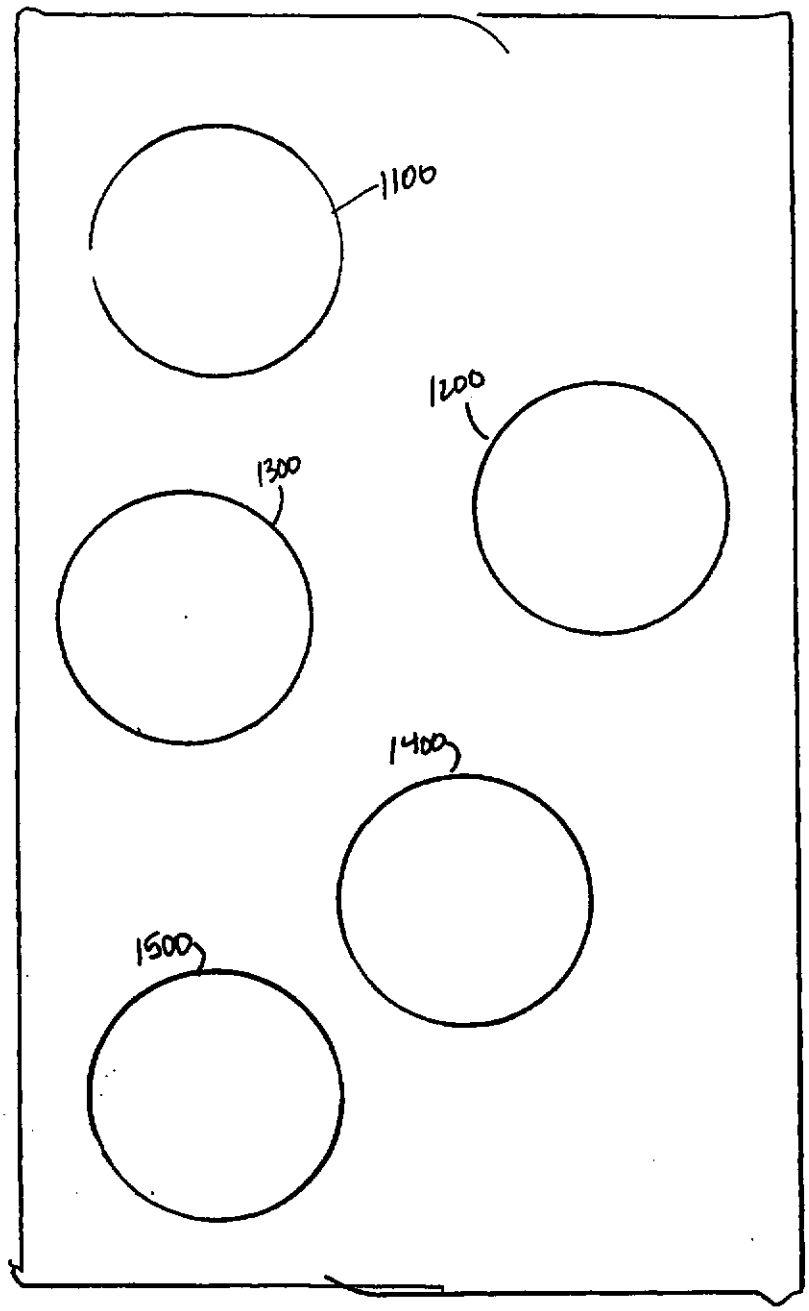


Fig 7

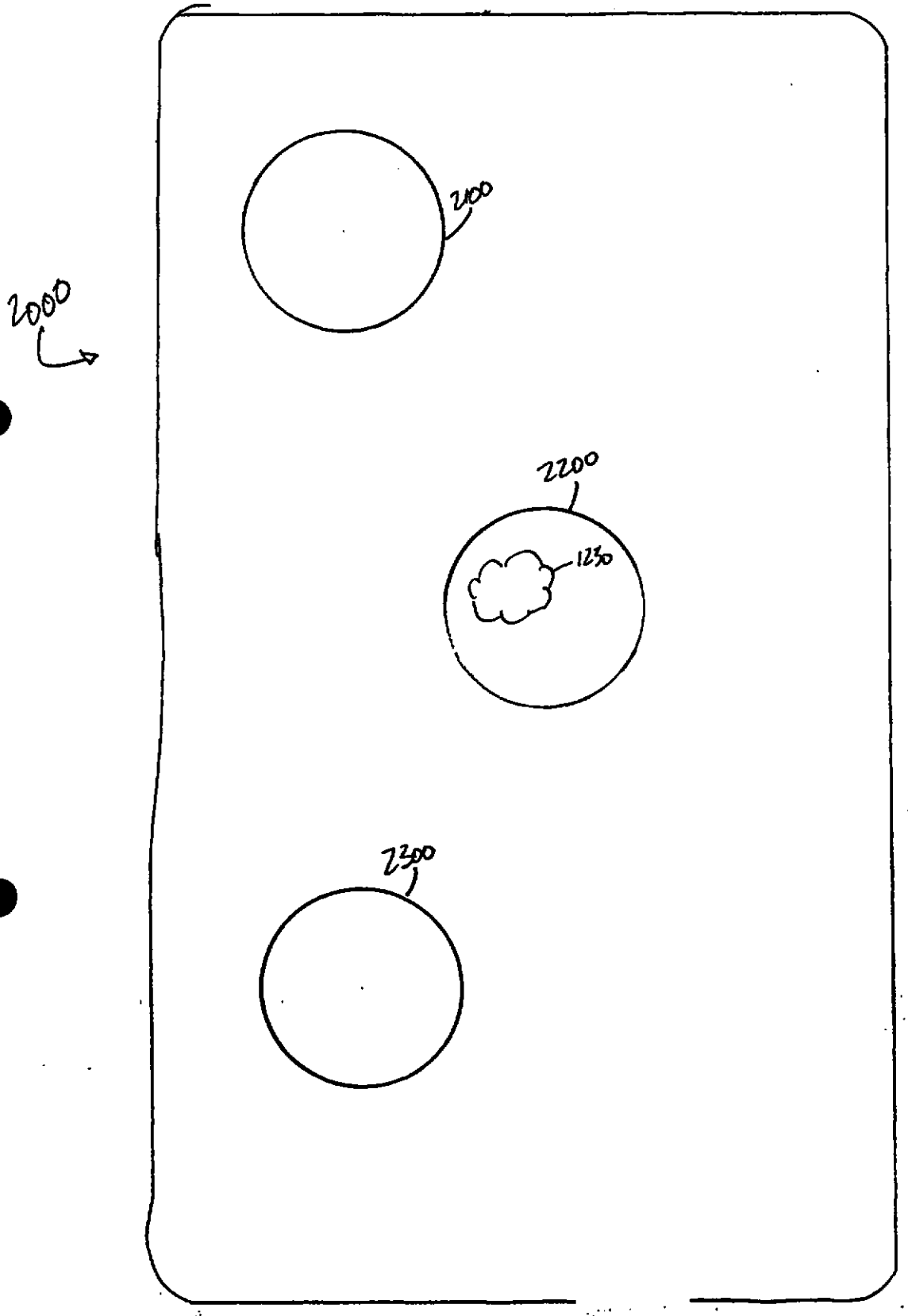


Fig 8

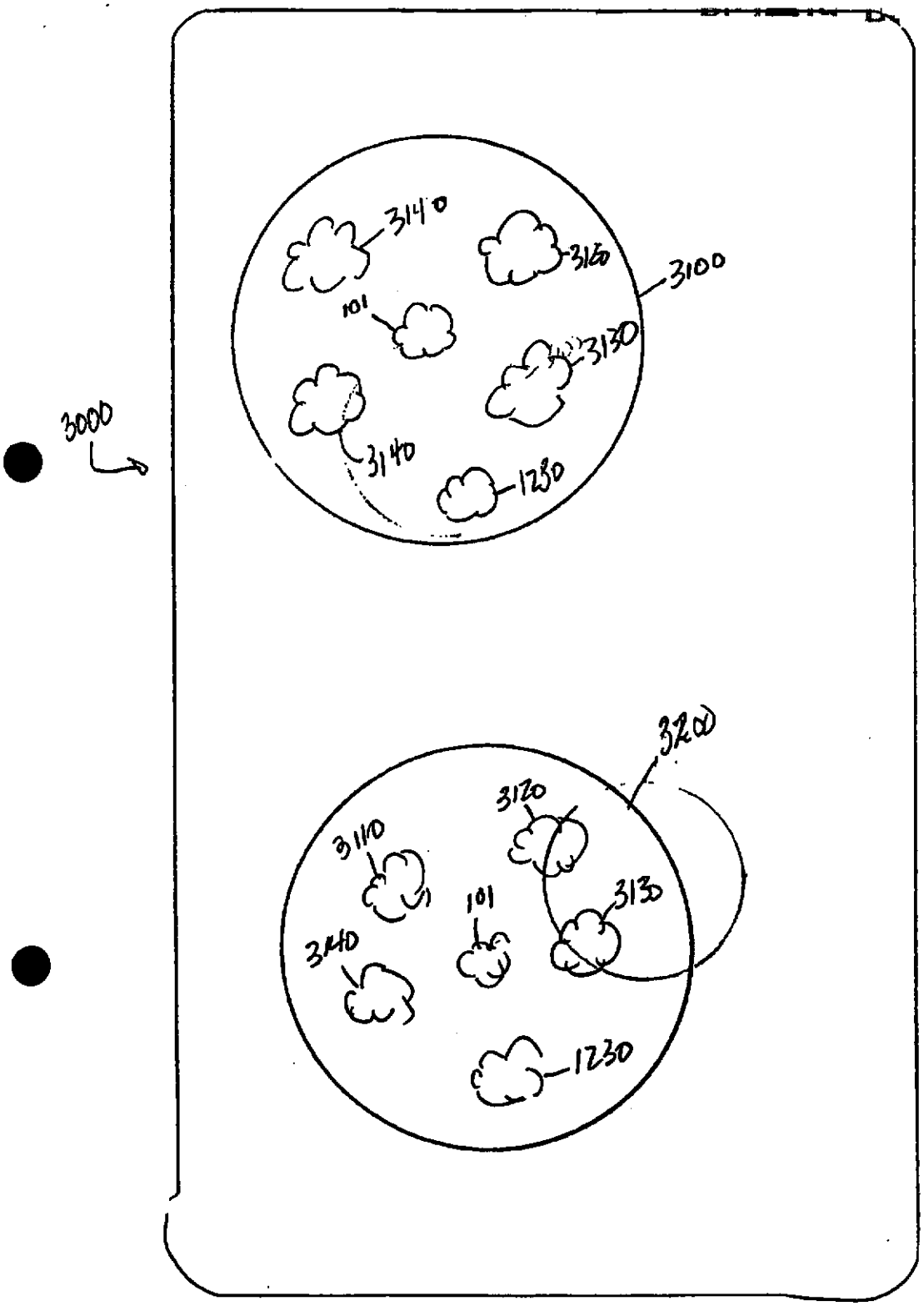

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3140
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Fig. 9

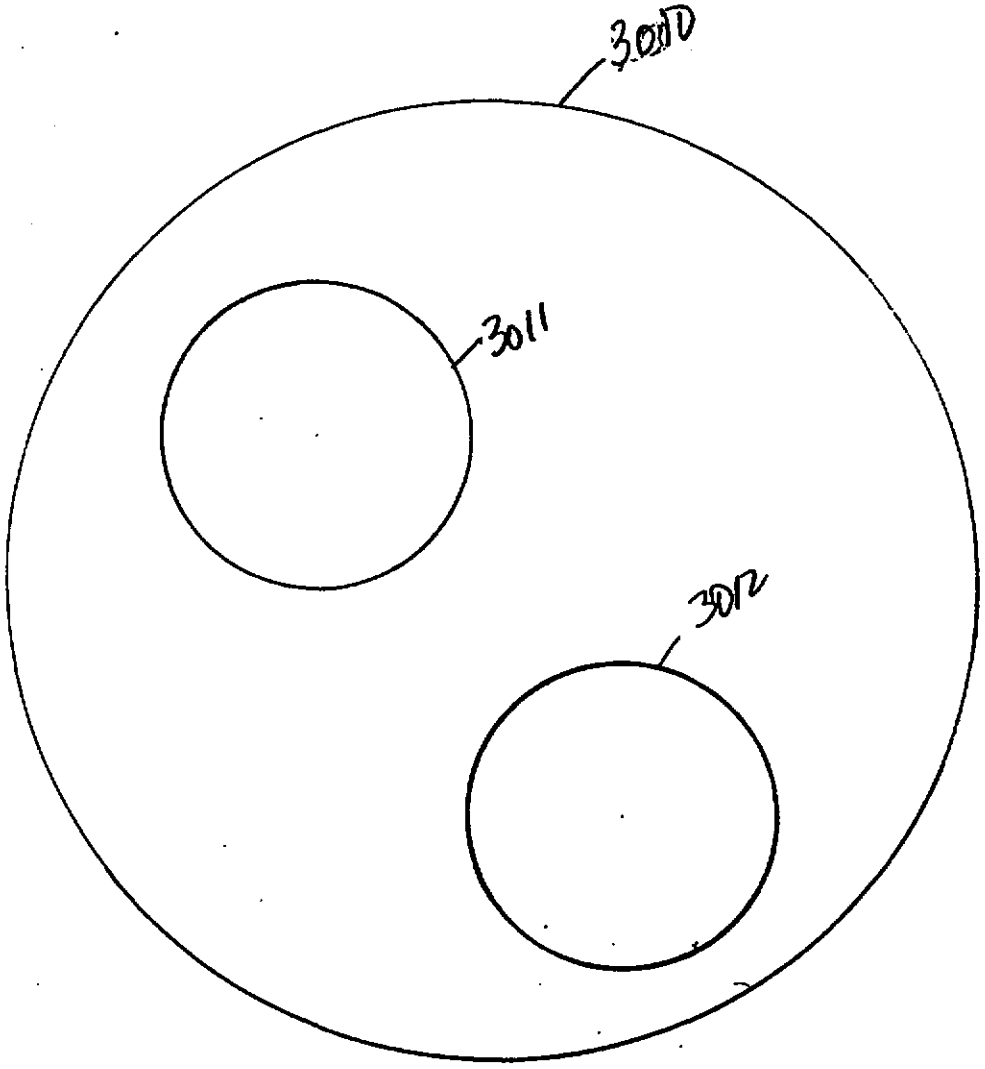


Fig. 3D

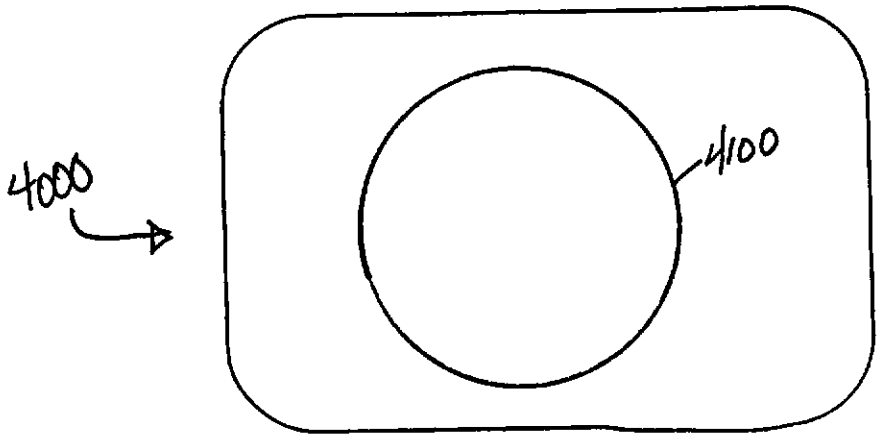


Fig 11

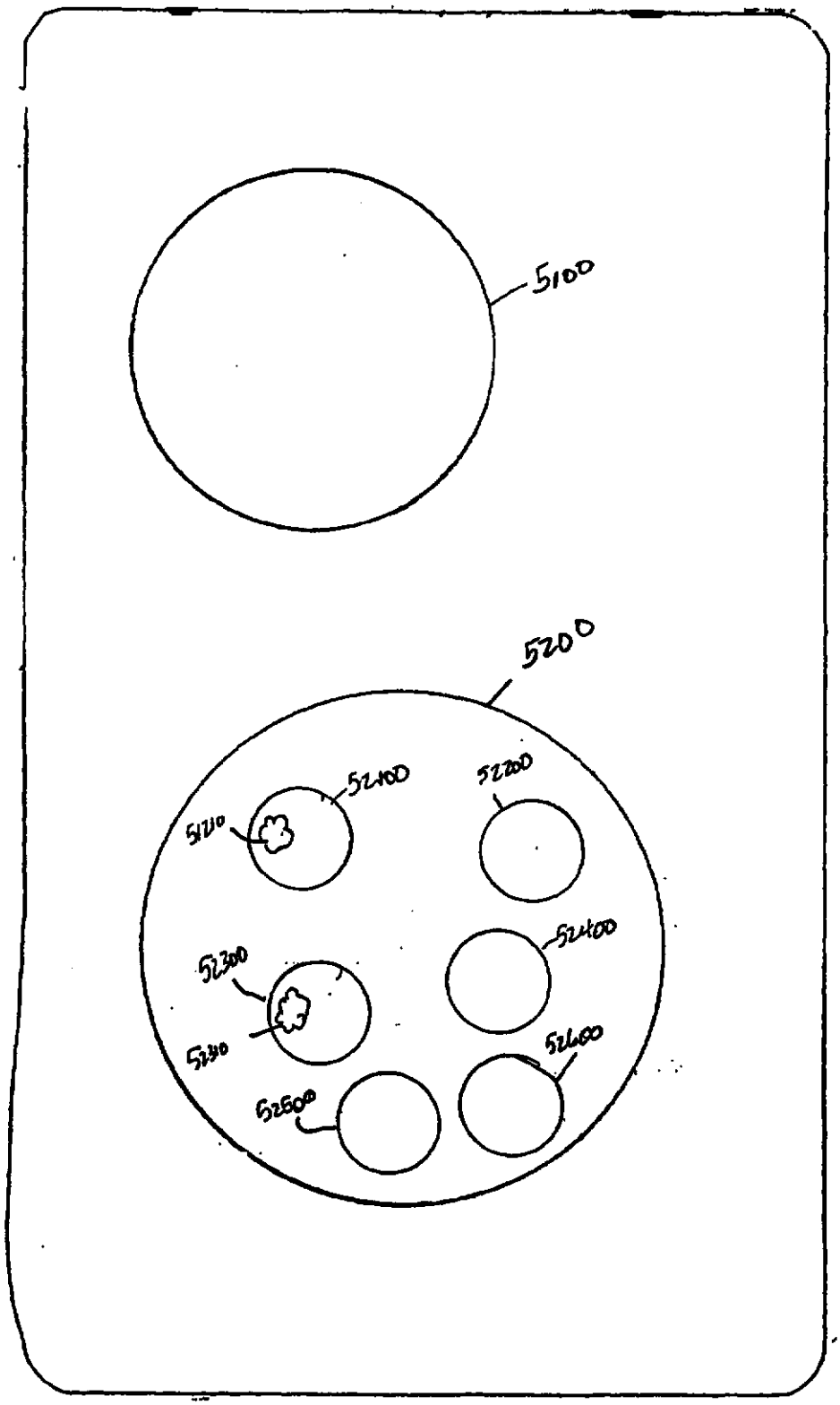

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Fig 17

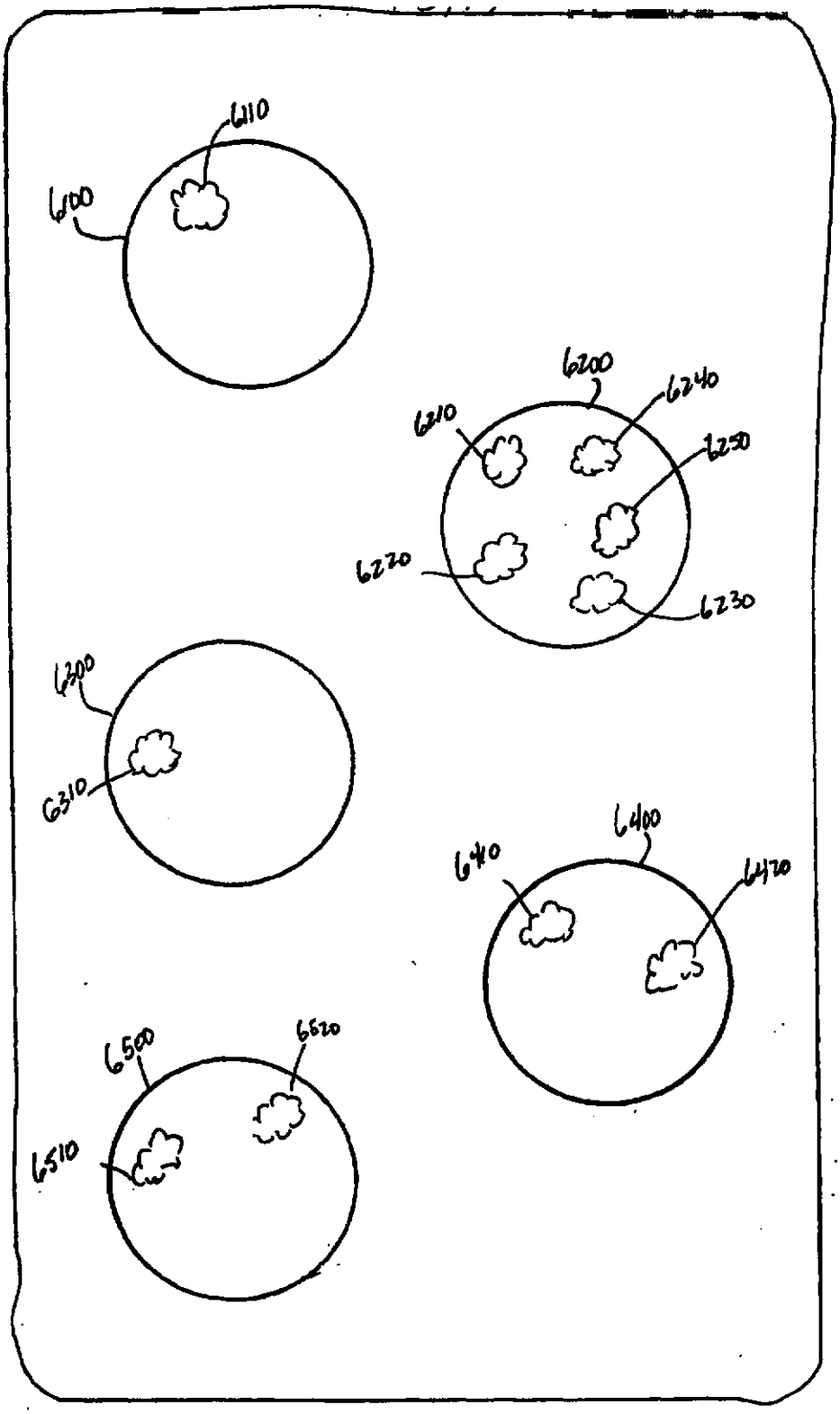

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6510

Fig 13

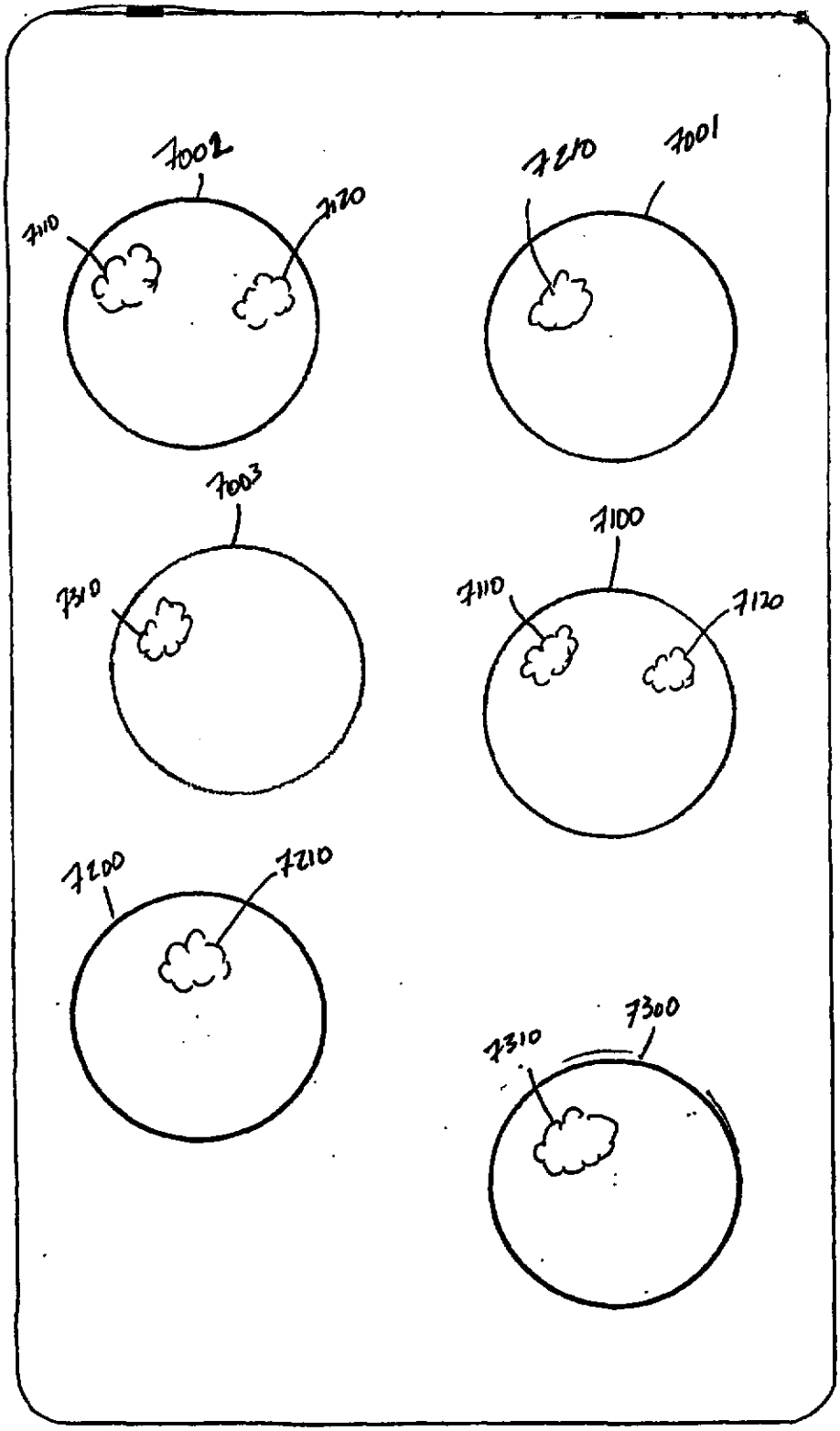

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7003
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7210
7310
7300

Fig 14

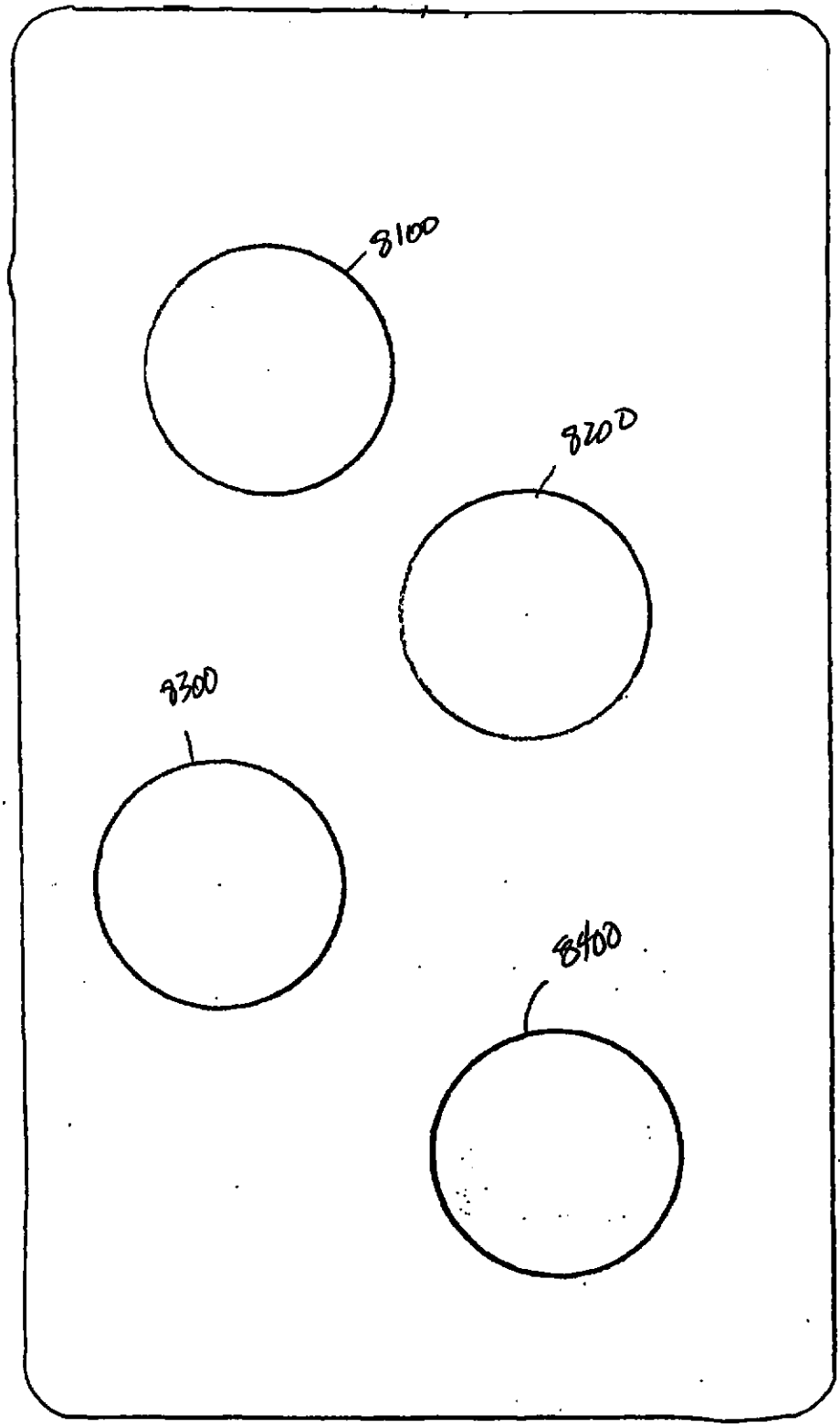


Fig. 8

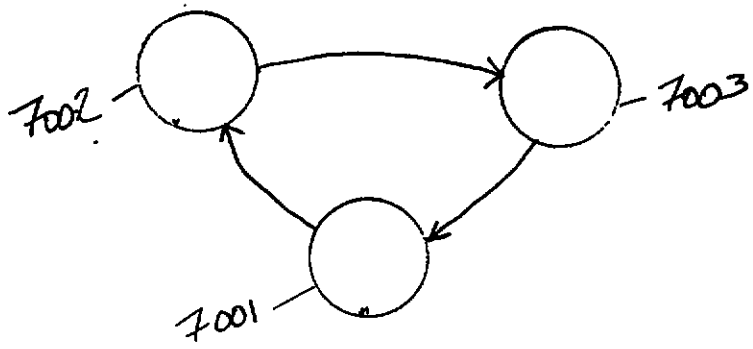


Fig 15

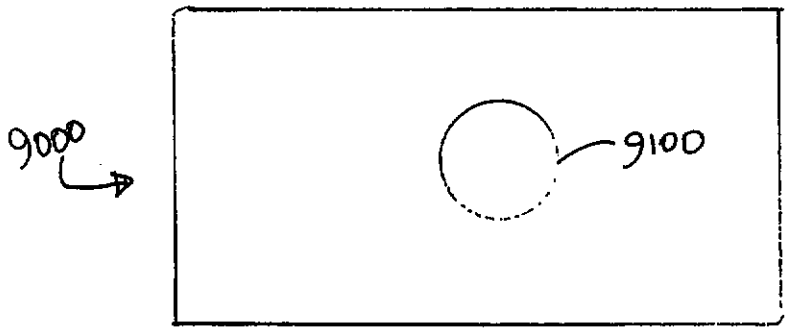


Fig 17

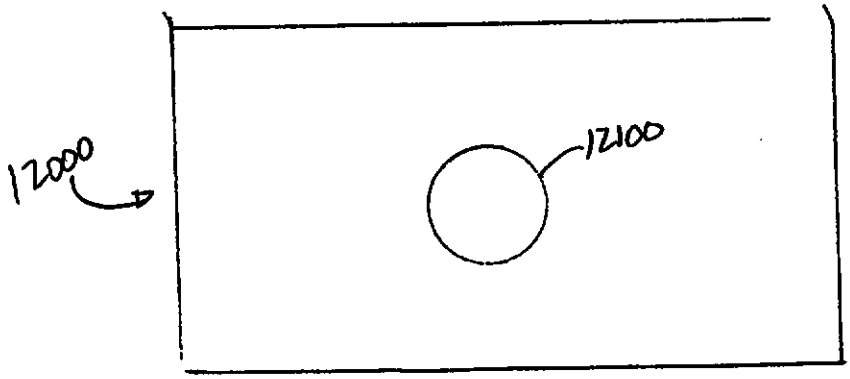


Fig 18

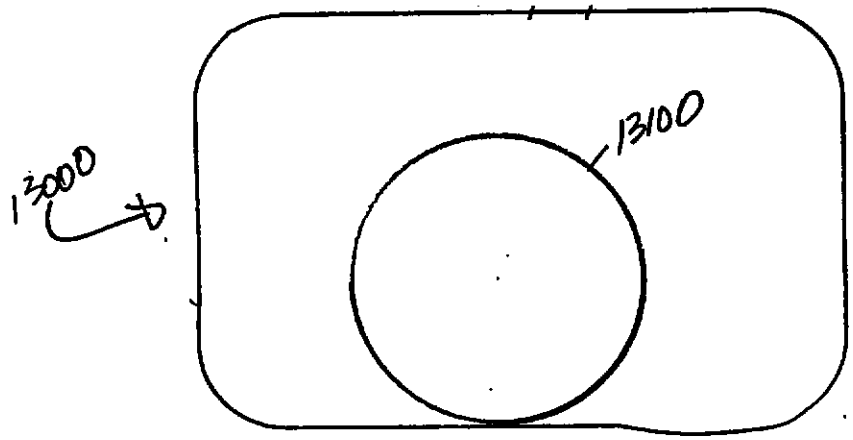


Fig 19

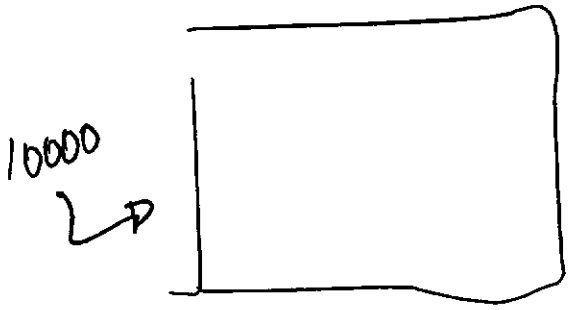


Fig 20

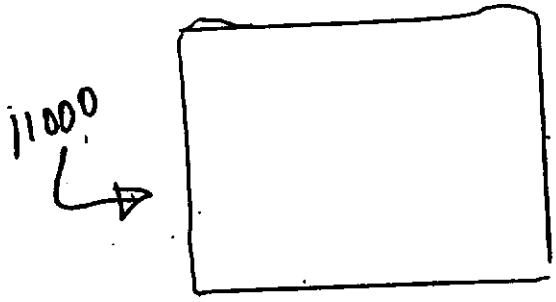


Fig 21