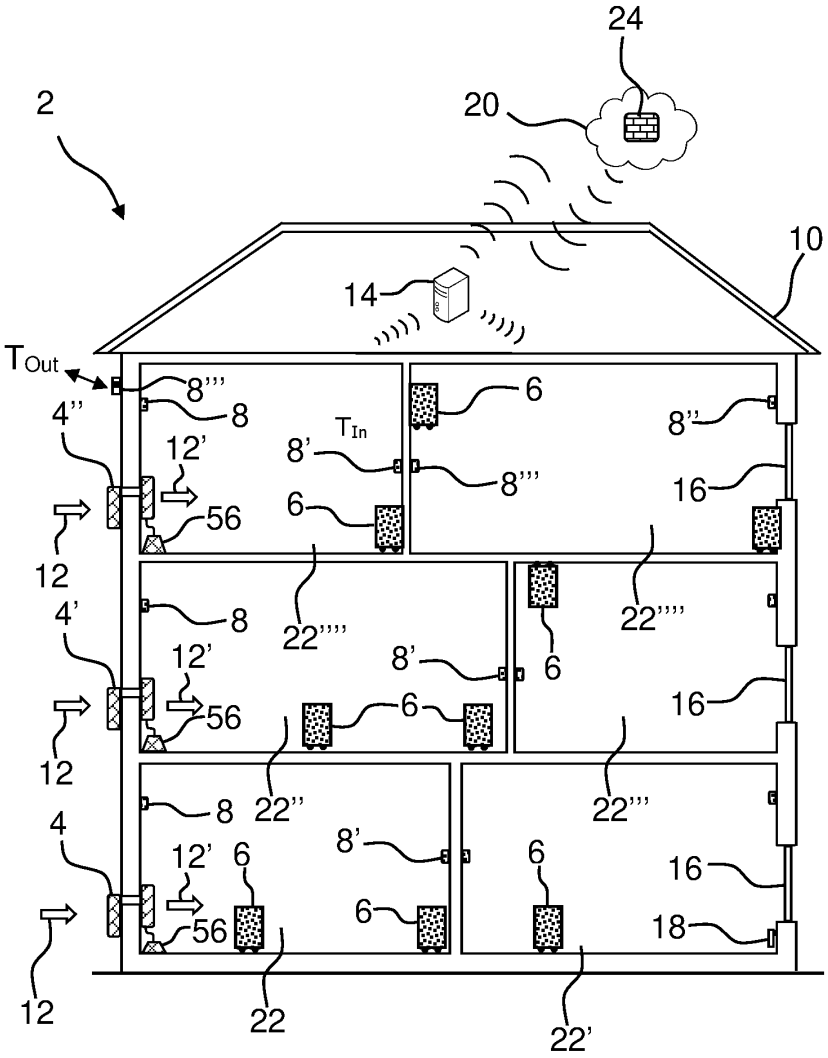

24
20
2
10
14
T_{Out}
8'''
8
4''
12'
8'
T_{In}
6
8''
8'''
16
12
56
6
4'
8
22''''
12'
8'
6
22''''
16
12
56
6
4
8
22''
22'''
12'
6
8'
6
16
6
18
12
56
22
22'

Fig. 1

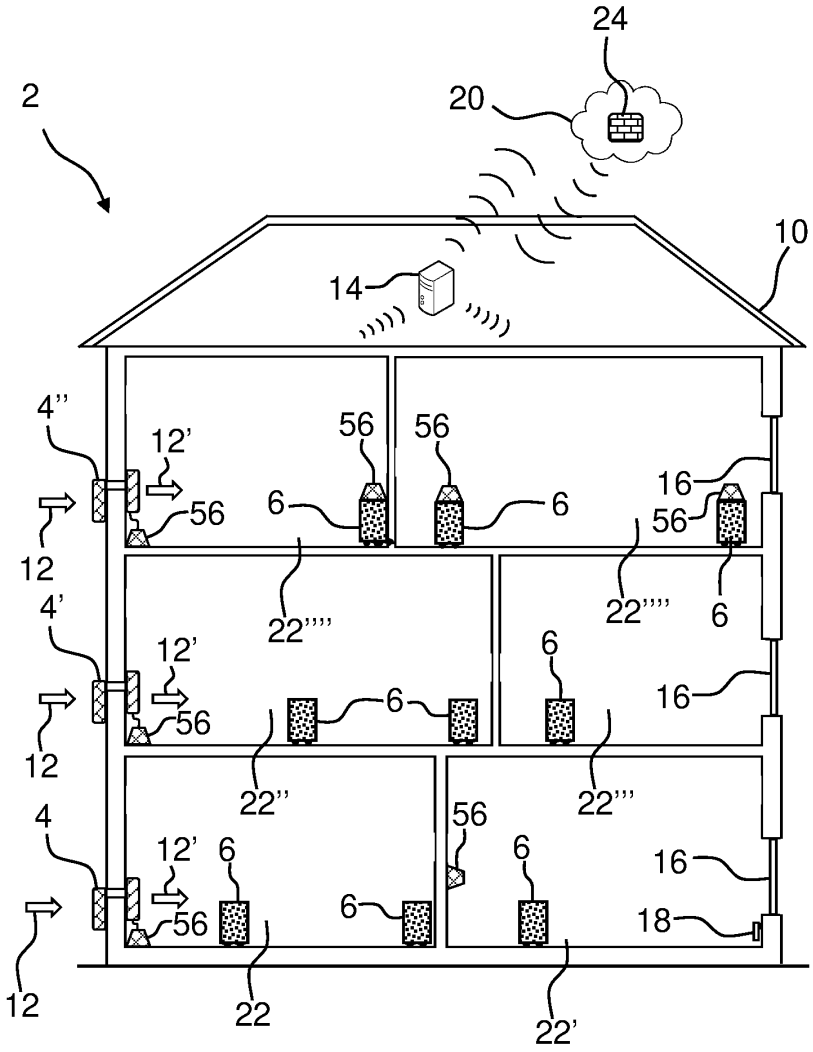
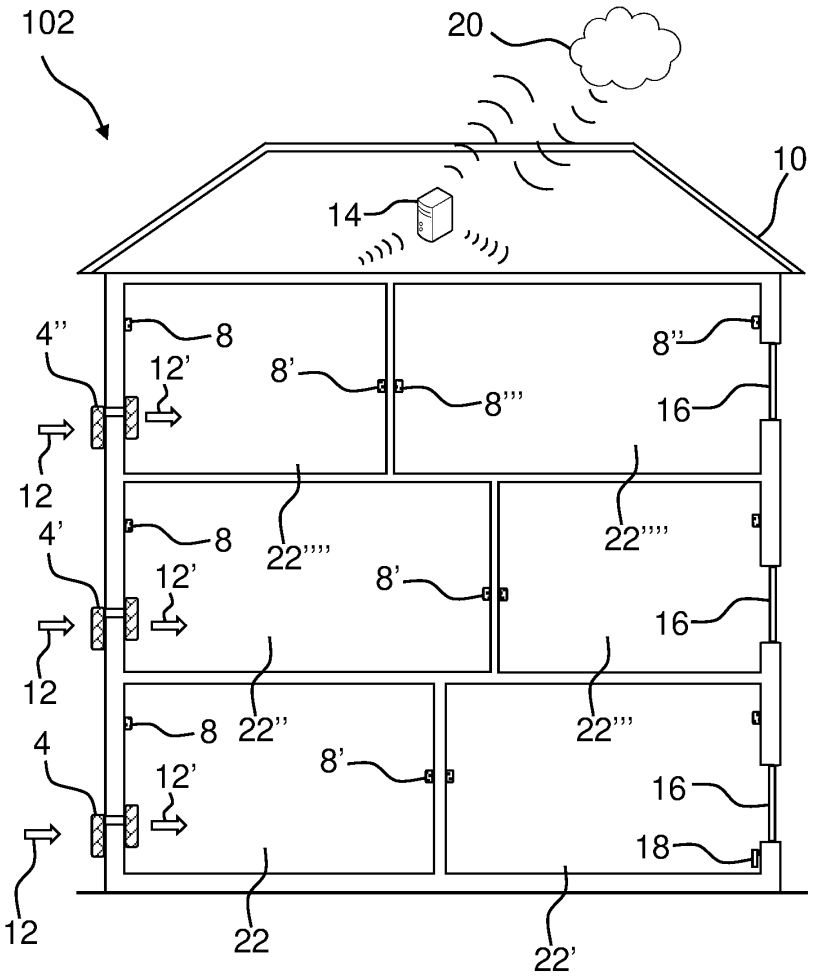

24
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16
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22'''
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12'
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22
22'

Fig. 2



PRIOR ART

Fig. 3

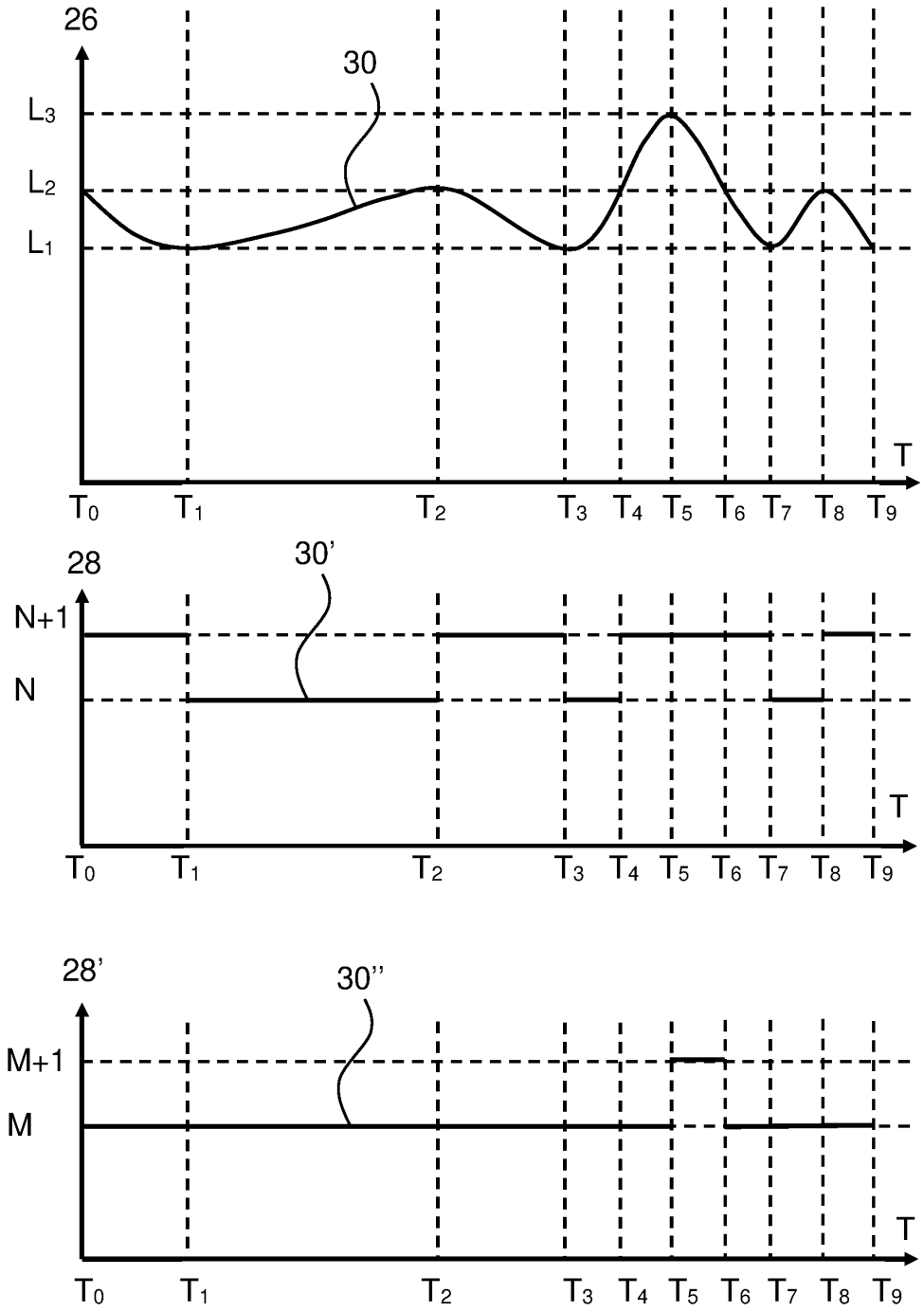

26
30
L3
L2
L1
T
T0 T1 T2 T3 T4 T5 T6 T7 T8 T9
28
30'
N+1
N
T
T0 T1 T2 T3 T4 T5 T6 T7 T8 T9
28'
30''
M+1
M
T
T0 T1 T2 T3 T4 T5 T6 T7 T8 T9

Fig. 4

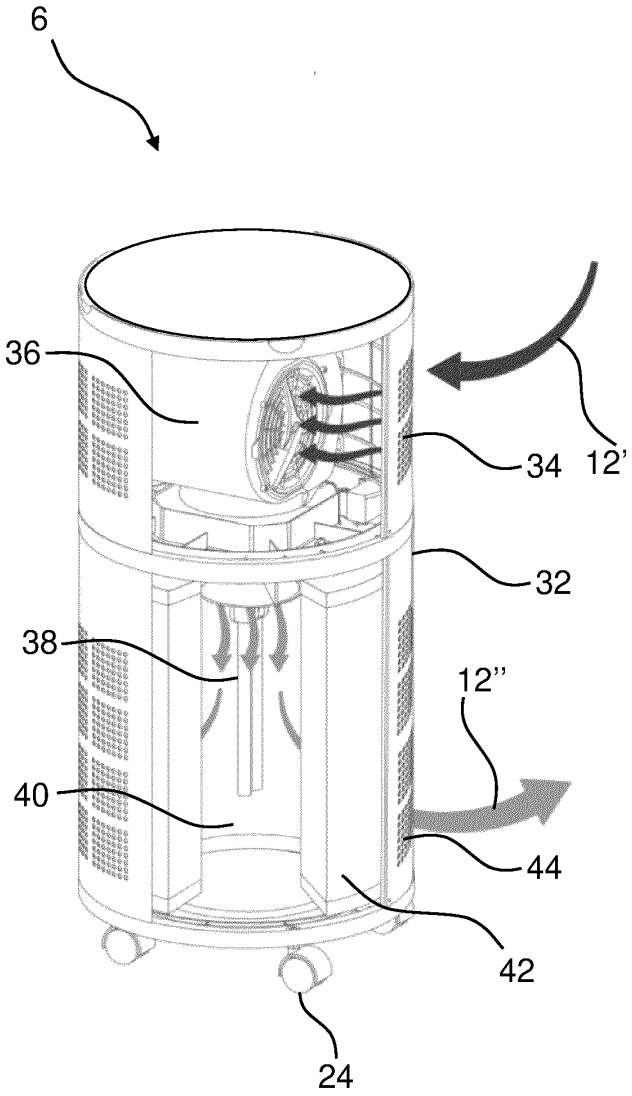


Fig. 5

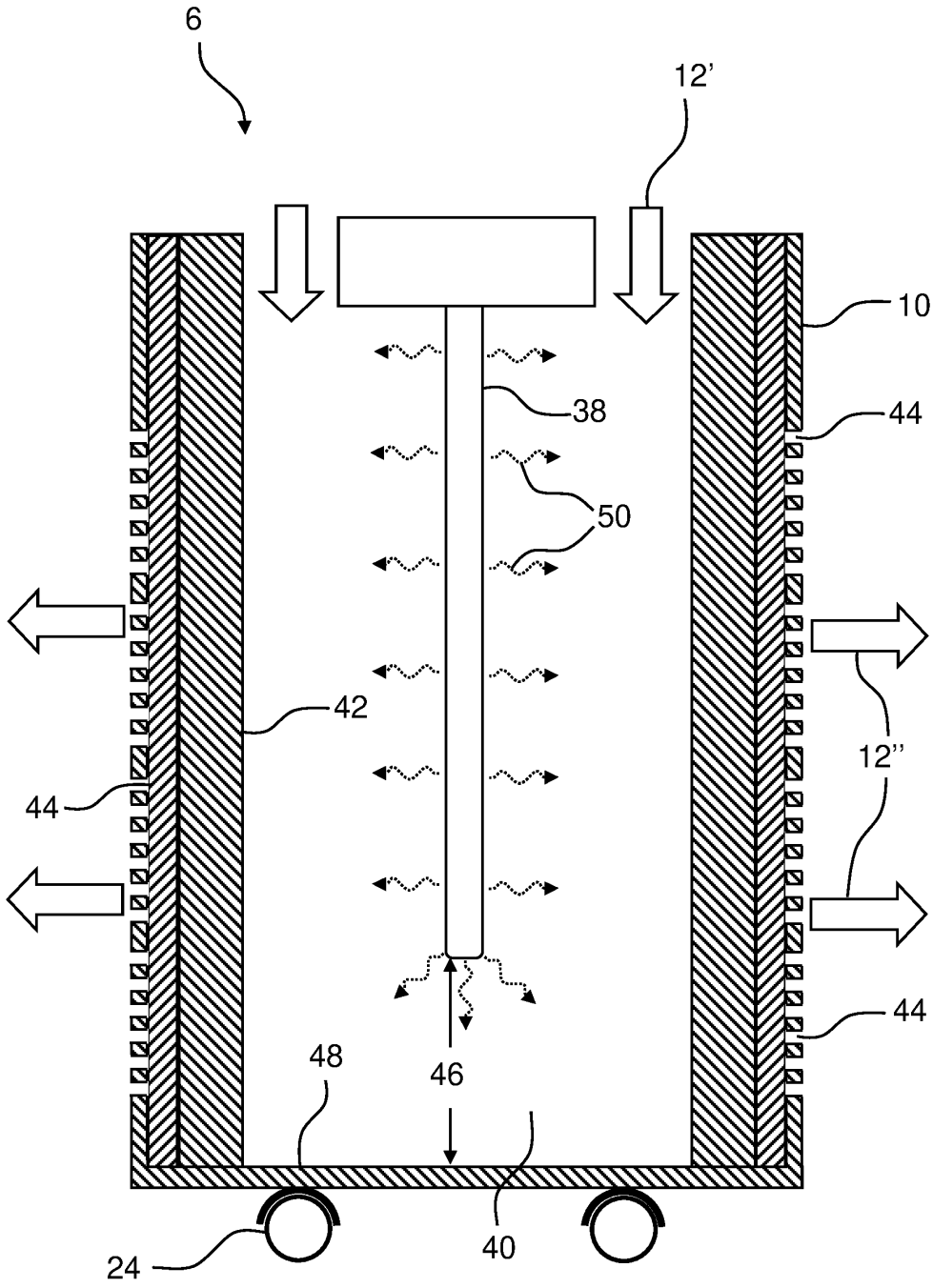


Fig. 6

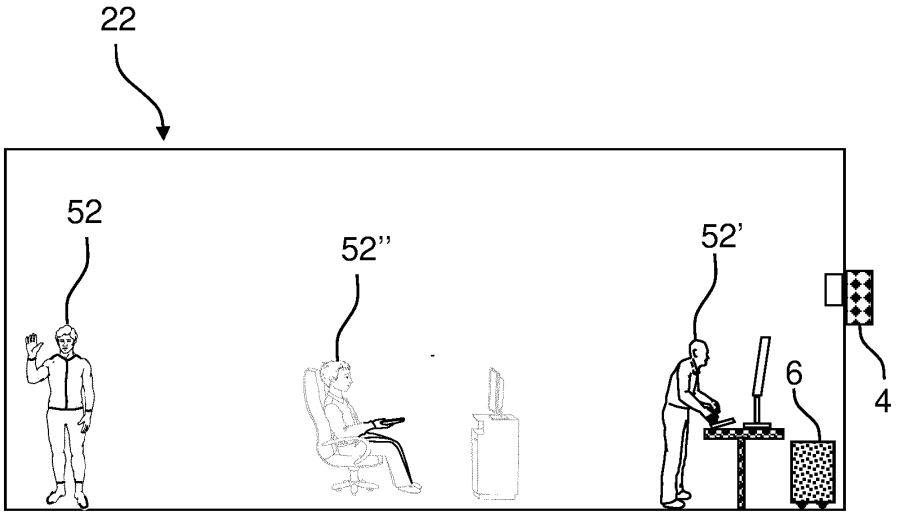


Fig. 7A

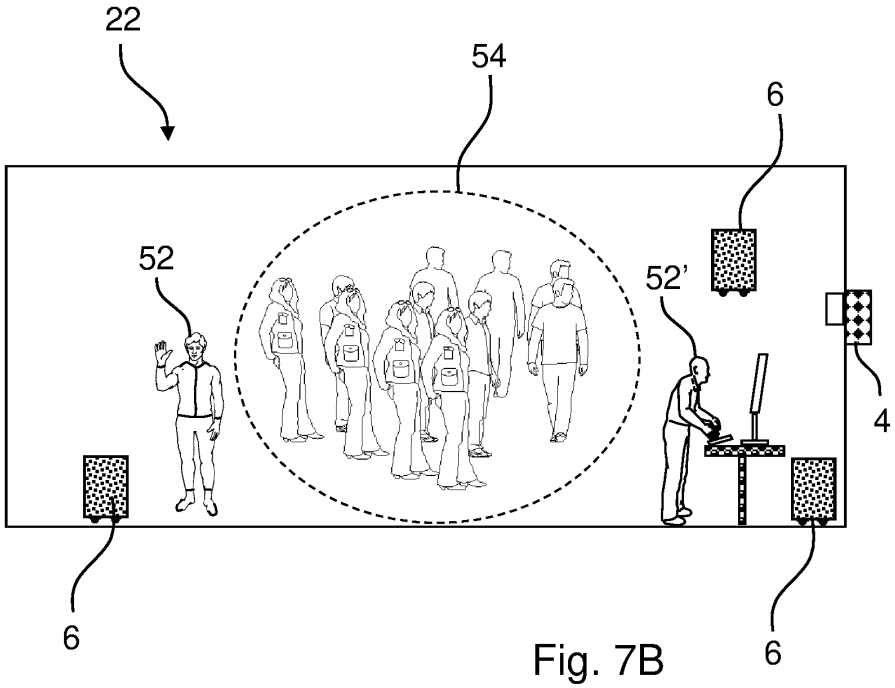


Fig. 7B

Fig. 8A

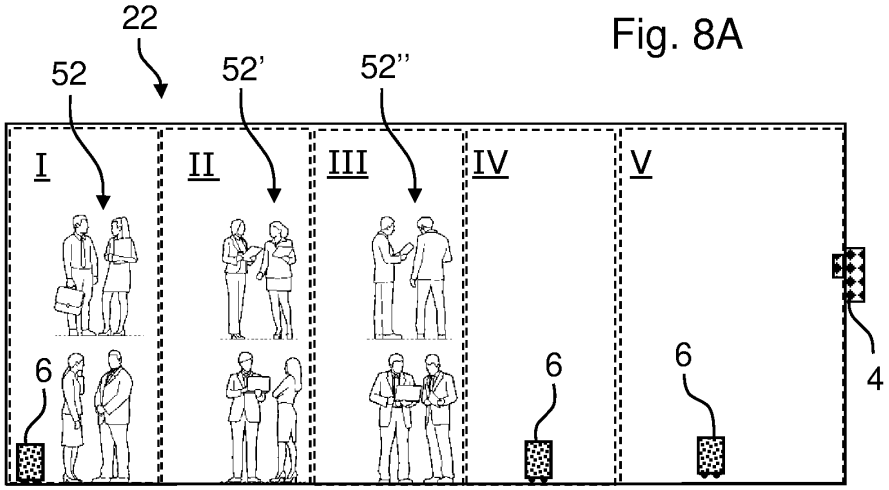


Fig. 8B

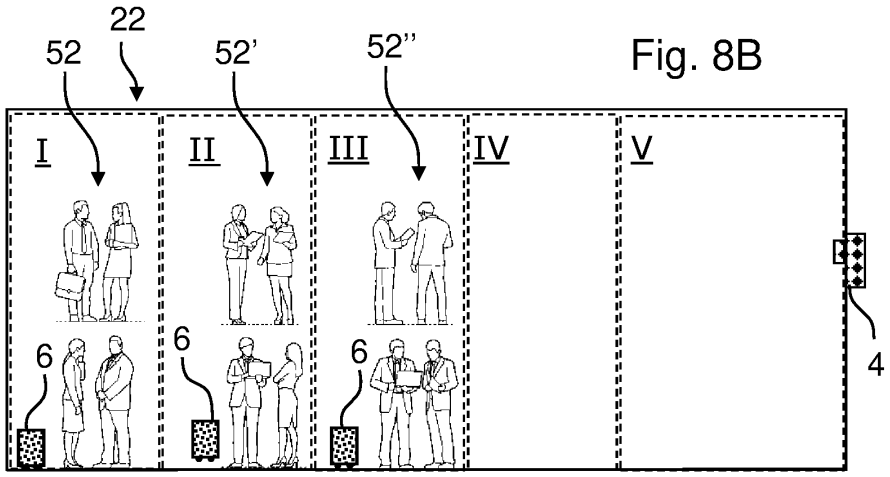
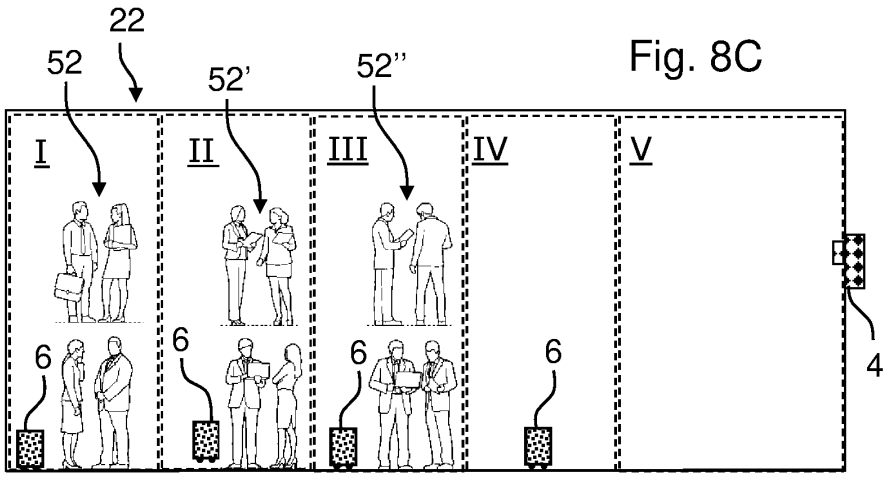


Fig. 8C



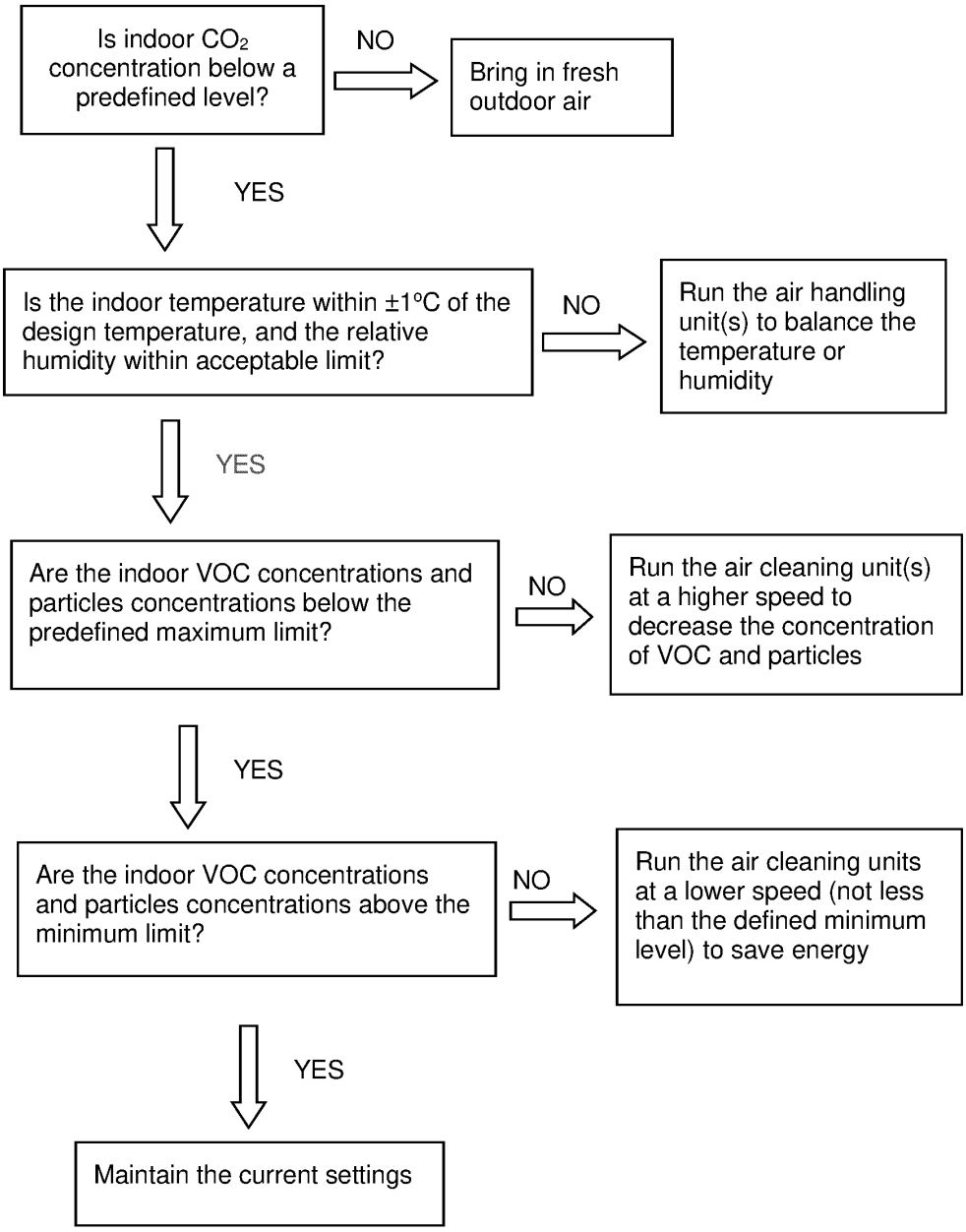

Is indoor CO_2 concentration below a predefined level?
NO
Bring in fresh outdoor air
YES
Is the indoor temperature within ±1°C of the design temperature, and the relative humidity within acceptable limit?
NO
Run the air handling unit(s) to balance the temperature or humidity
YES
Are the indoor VOC concentrations and particles concentrations below the predefined maximum limit?
NO
Run the air cleaning unit(s) at a higher speed to decrease the concentration of VOC and particles
YES
Are the indoor VOC concentrations and particles concentrations above the minimum limit?
NO
Run the air cleaning units at a lower speed (not less than the defined minimum level) to save energy
YES
Maintain the current settings

Fig. 9