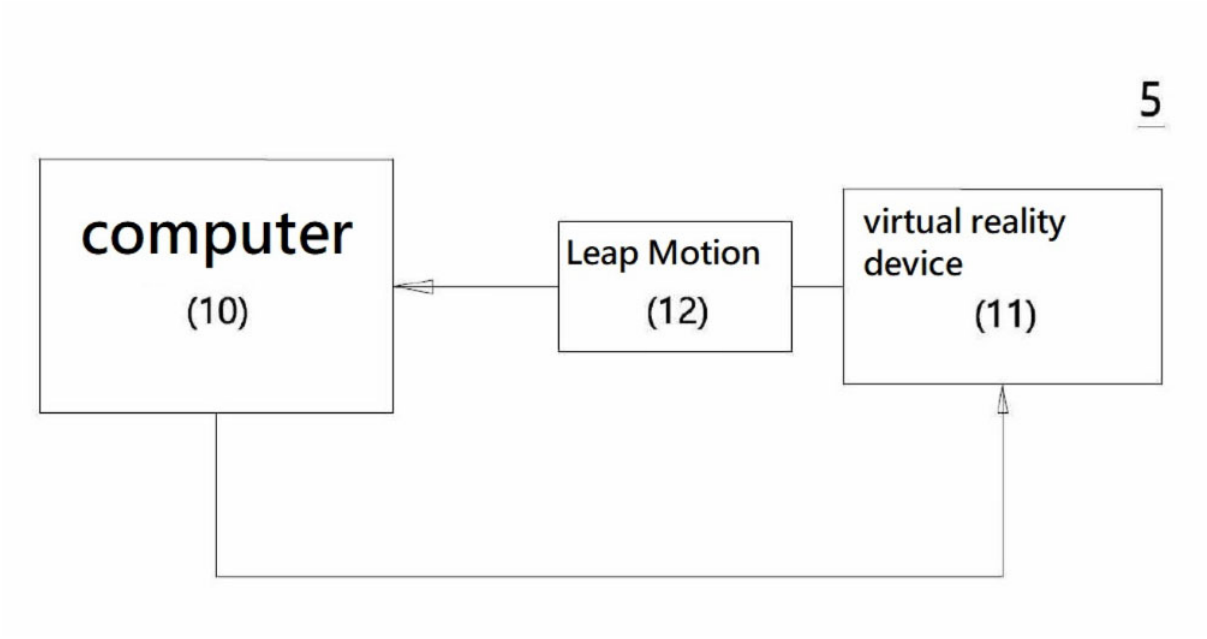


FIG. 1

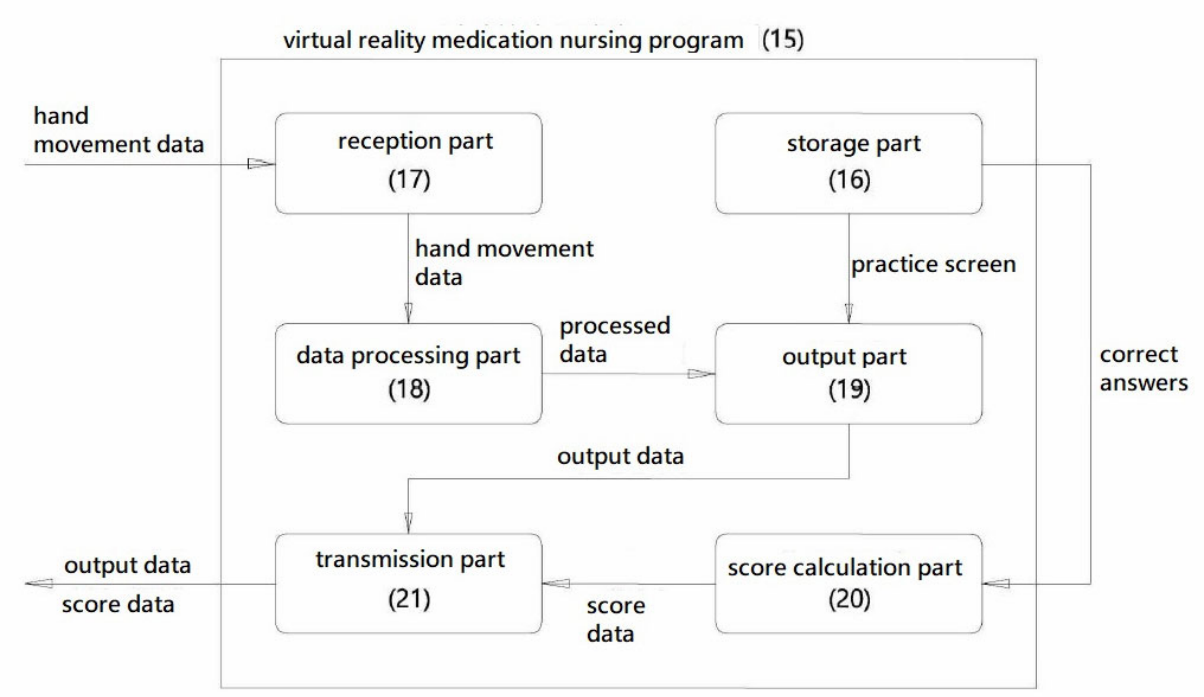

virtual reality medication nursing program (15)
hand movement data
reception part (17)
storage part (16)
hand movement data
practice screen
data processing part (18)
processed data
output part (19)
correct answers
output data
transmission part (21)
score calculation part (20)
output data
score data
score data

FIG. 2

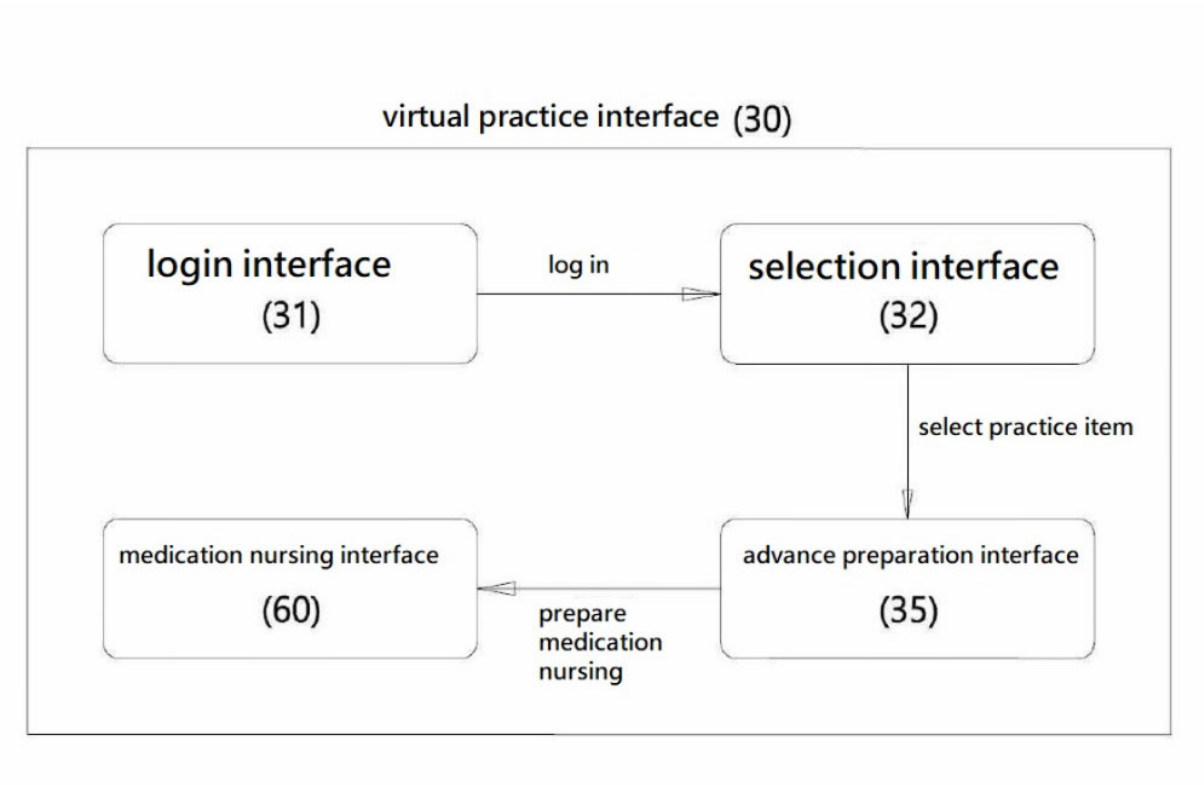

virtual practice interface (30)
login interface
(31)
log in
selection interface
(32)
select practice item
medication nursing interface
(60)
prepare
medication
nursing
advance preparation interface
(35)

FIG. 3

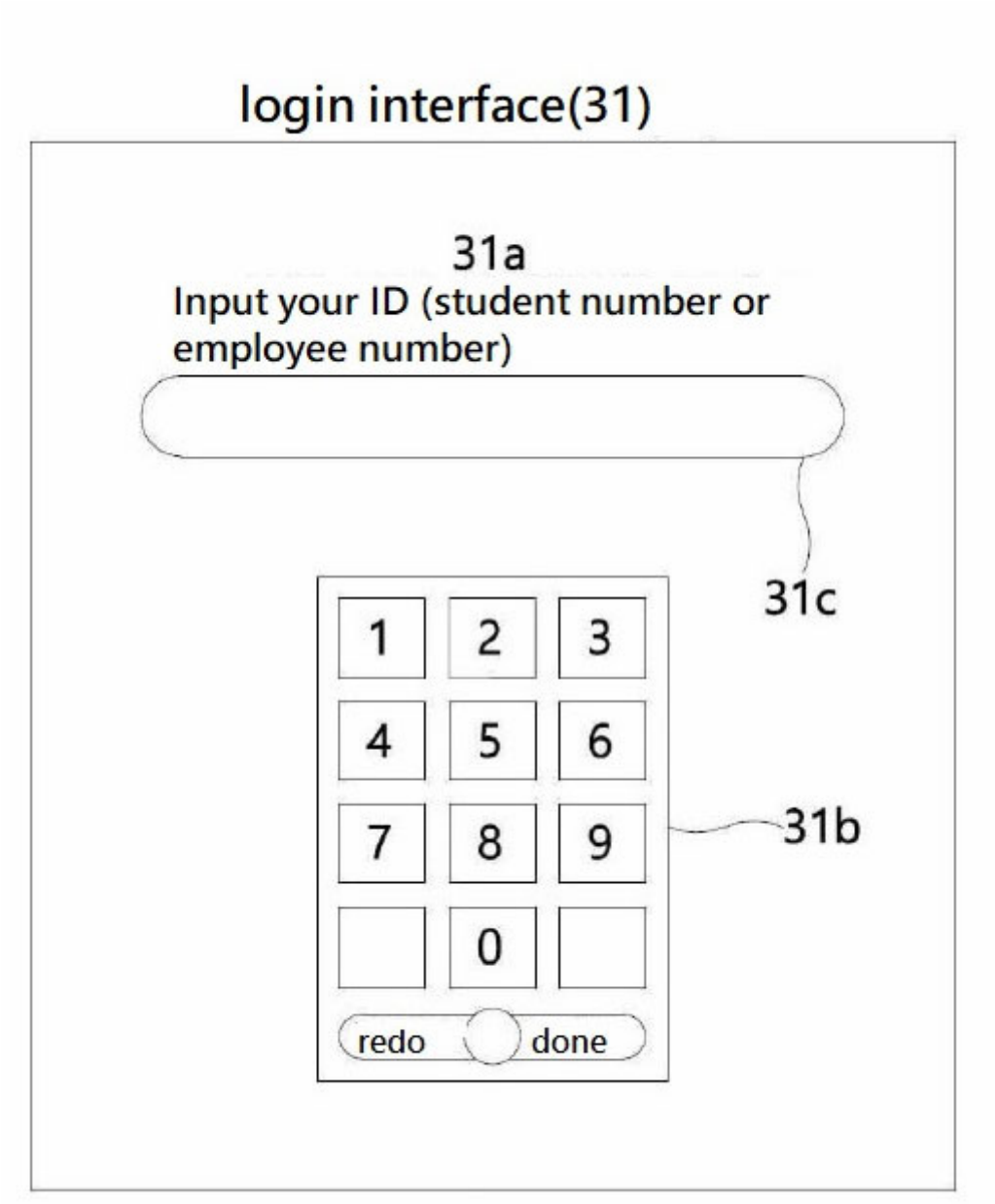

login interface(31)
31a
Input your ID (student number or employee number)
31c
1
2
3
4
5
6
7
8
9
31b
0
redo
done

FIG. 4

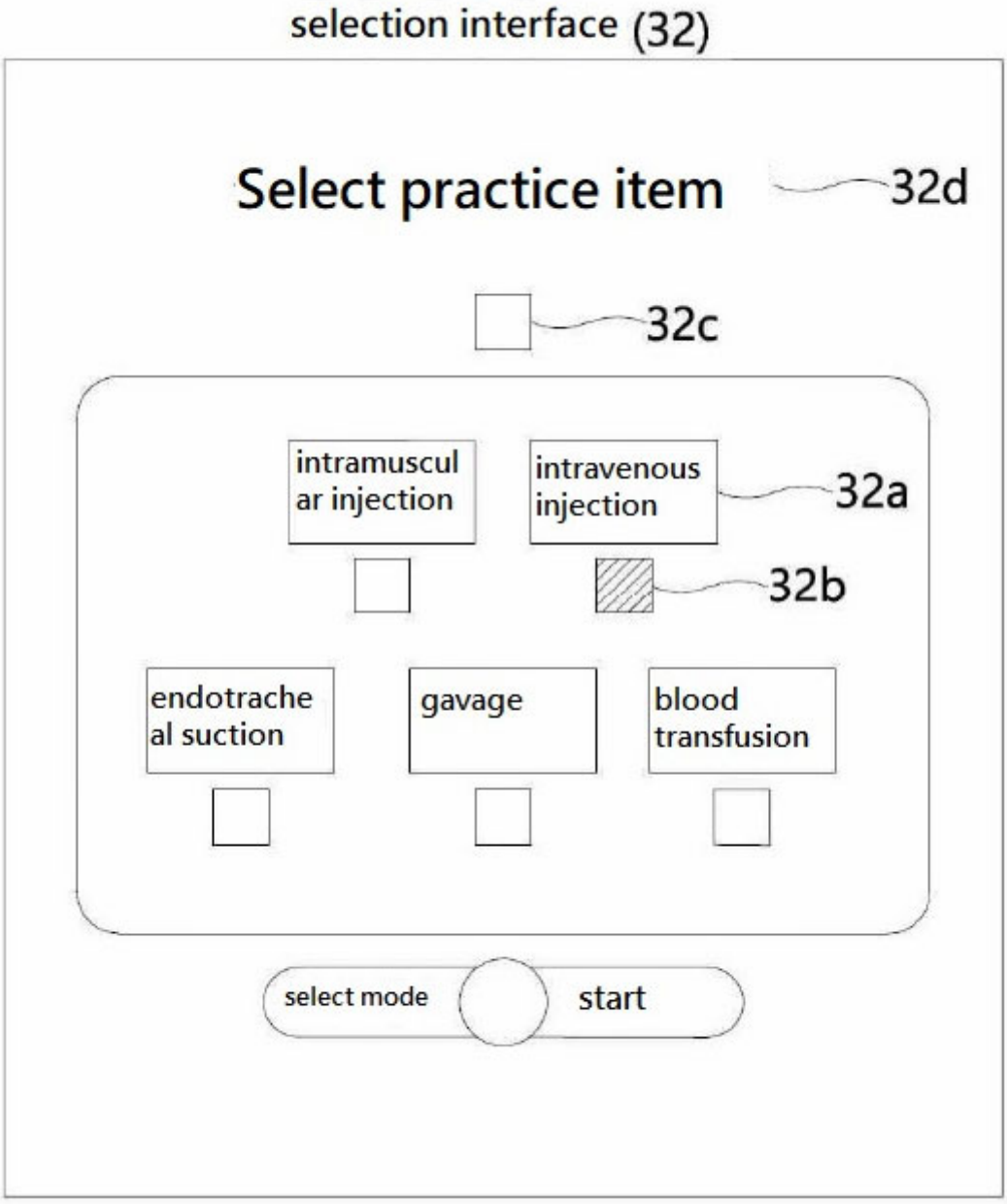

selection interface (32)
Select practice item
32d
32c
intramuscul ar injection
intravenous injection
32a
32b
endotrache al suction
gavage
blood transfusion
select mode
start

FIG. 5

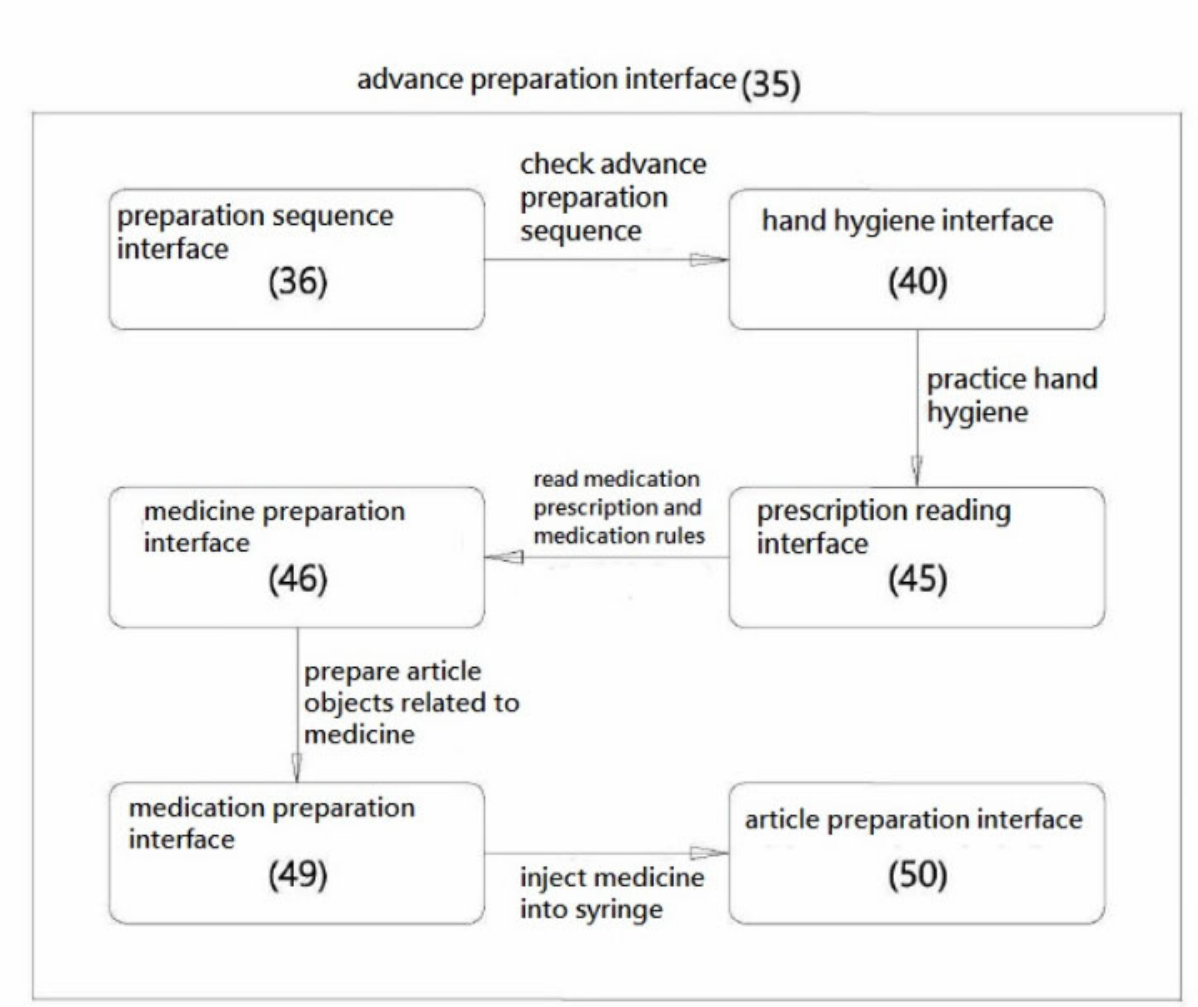

advance preparation interface (35)
preparation sequence interface (36)
check advance preparation sequence
hand hygiene interface (40)
practice hand hygiene
prescription reading interface (45)
read medication prescription and medication rules
medicine preparation interface (46)
prepare article objects related to medicine
medication preparation interface (49)
inject medicine into syringe
article preparation interface (50)

FIG. 6

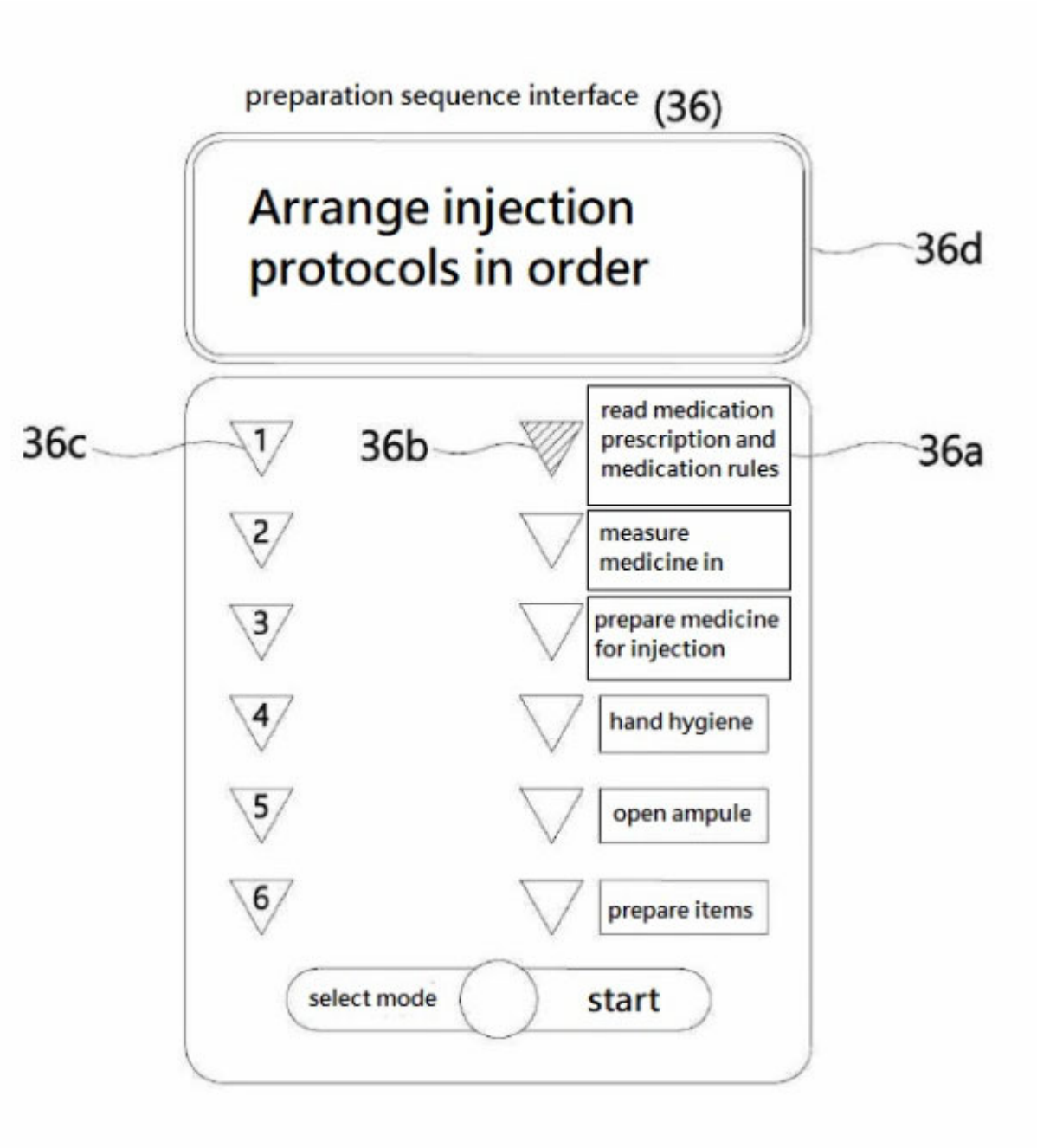

preparation sequence interface (36)
Arrange injection protocols in order
36d
36c
36b
36a
1
2
3
4
5
6
read medication prescription and medication rules
measure medicine in
prepare medicine for injection
hand hygiene
open ampule
prepare items
select mode
start

FIG.7

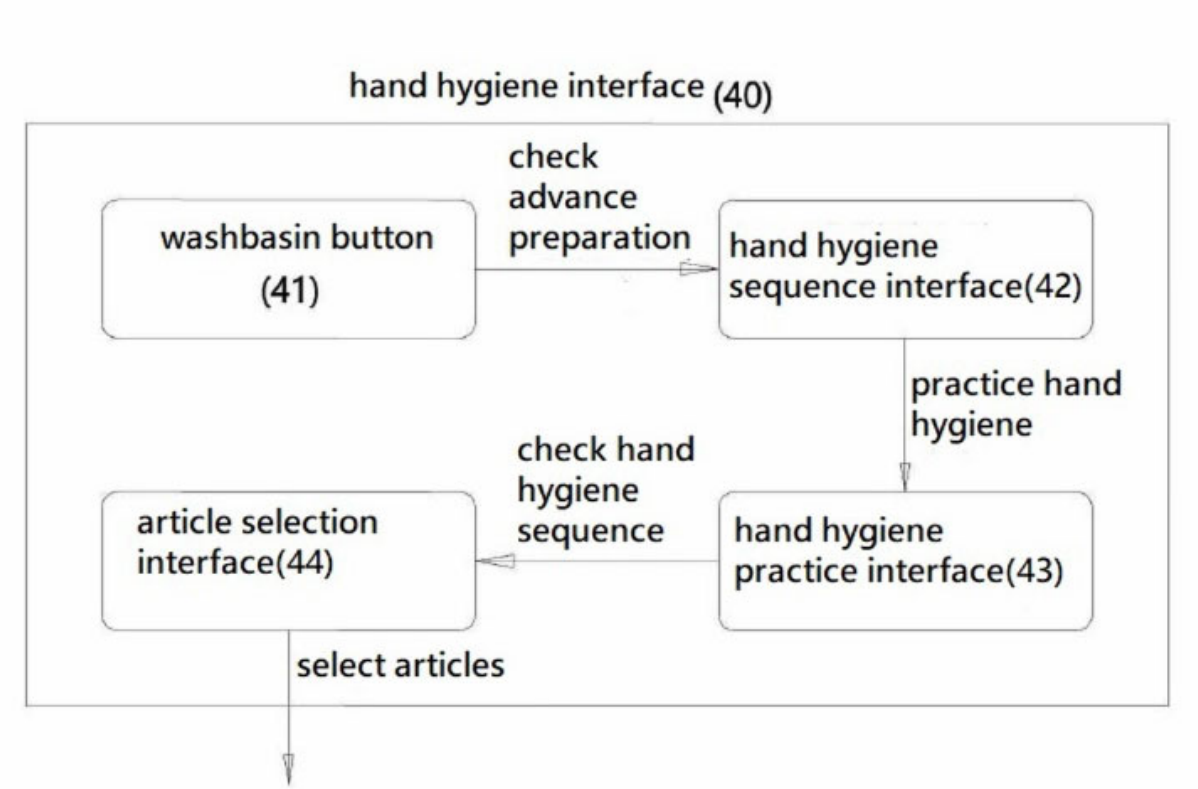

hand hygiene interface (40)
washbasin button (41)
check advance preparation
hand hygiene sequence interface(42)
practice hand hygiene
hand hygiene practice interface(43)
check hand hygiene sequence
article selection interface(44)
select articles

FIG. 8

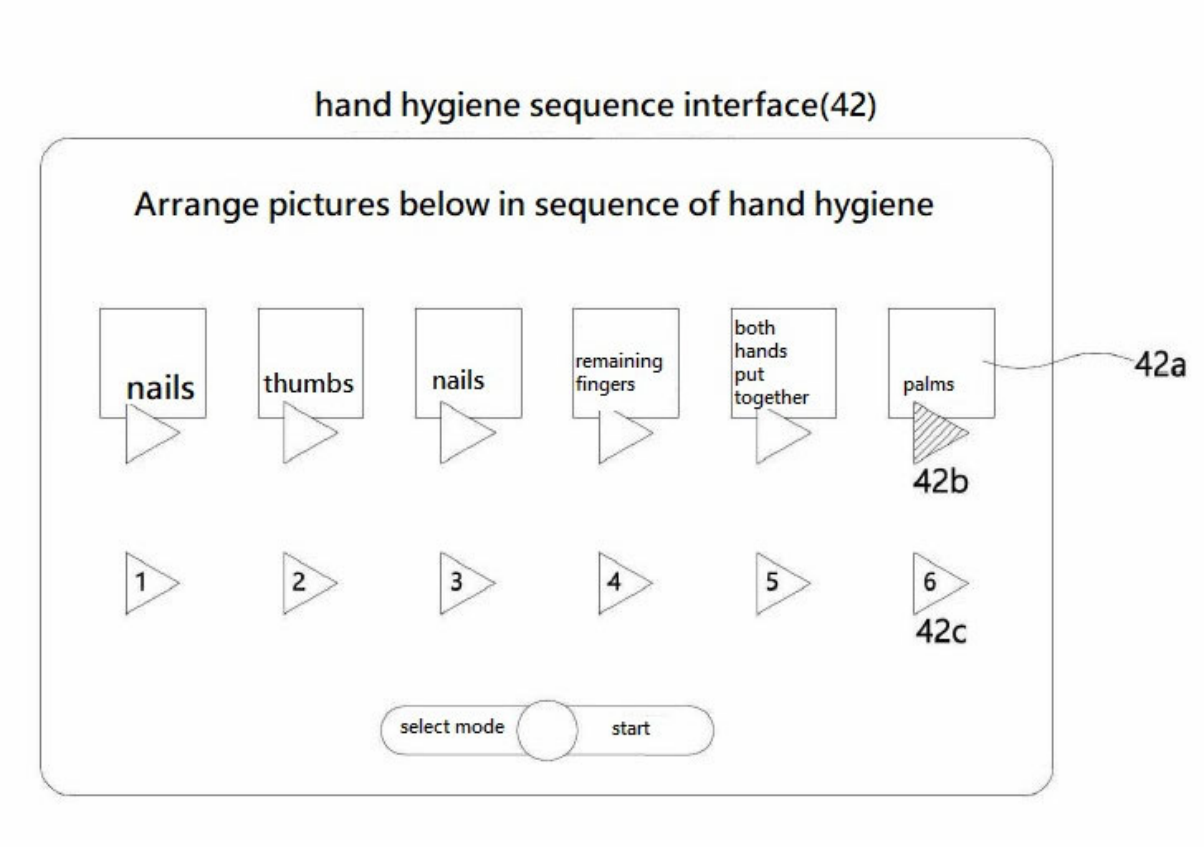

hand hygiene sequence interface(42)
Arrange pictures below in sequence of hand hygiene
nails
thumbs
nails
remaining fingers
both hands put together
palms
42a
42b
1
2
3
4
5
6
42c
select mode
start

FIG. 9

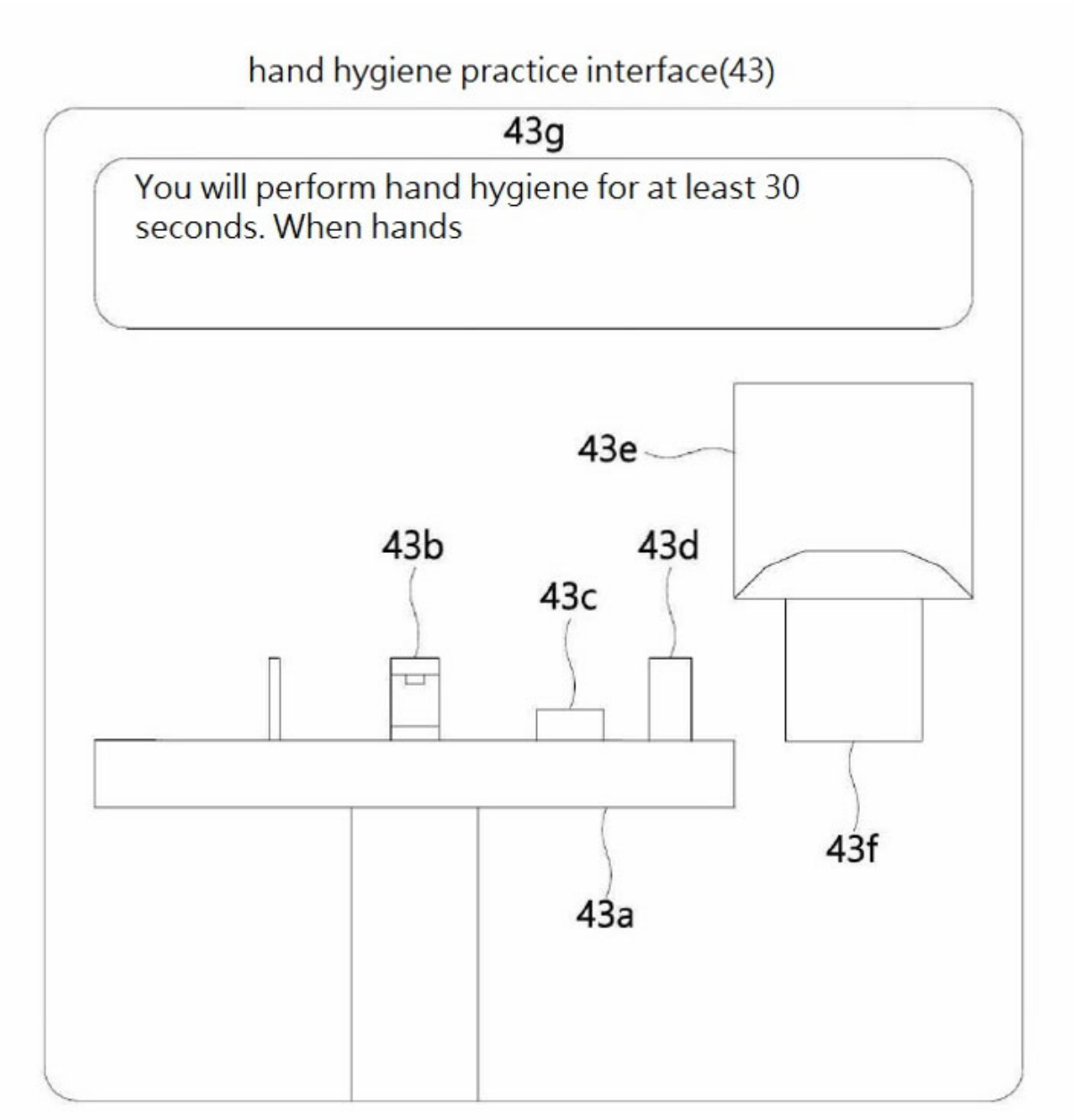

hand hygiene practice interface(43)
43g
You will perform hand hygiene for at least 30 seconds. When hands
43e
43b
43d
43c
43f
43a

FIG. 10

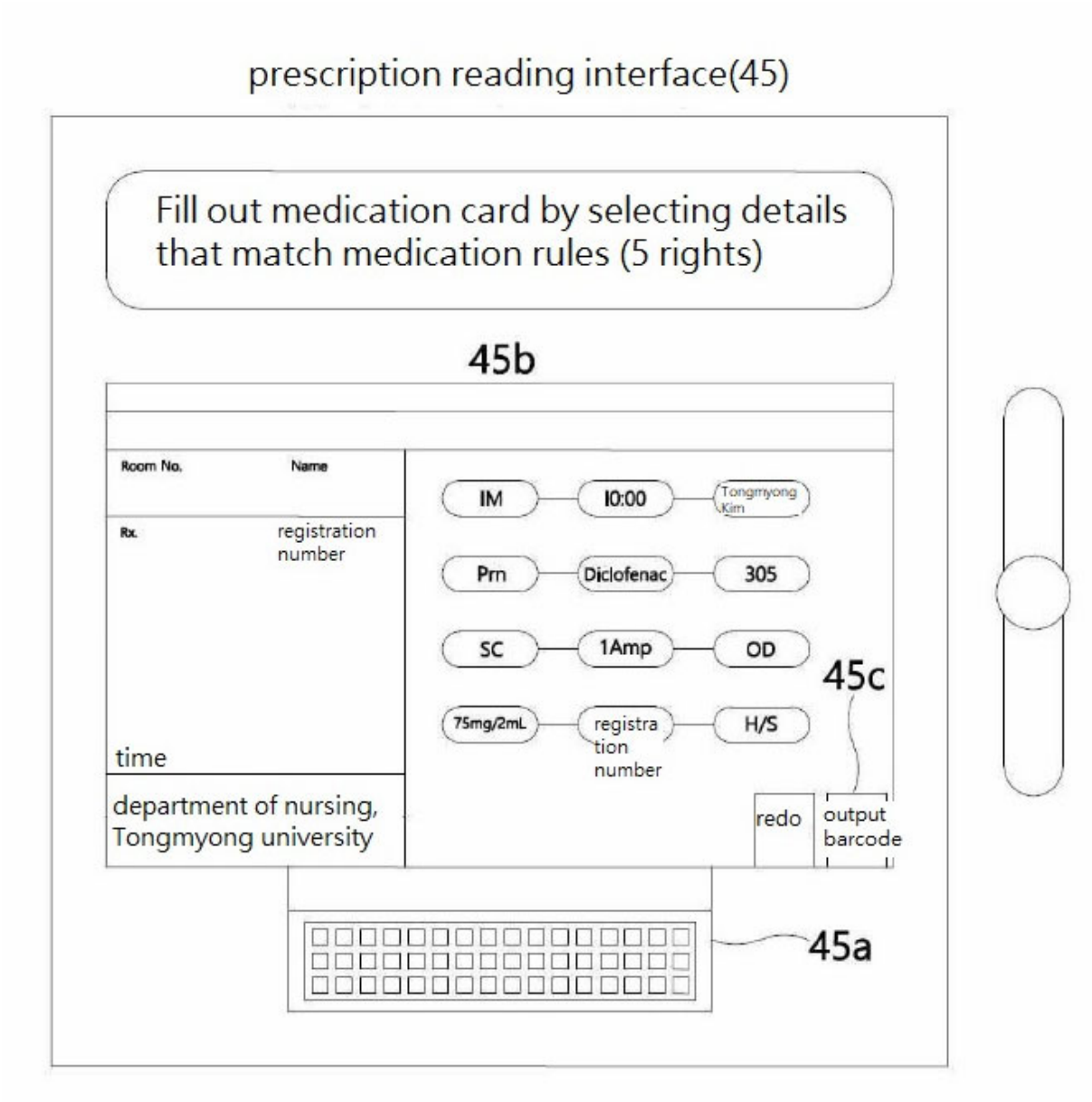

prescription reading interface(45)
Fill out medication card by selecting details that match medication rules (5 rights)
45b
Room No.
Name
Rx.
registration number
time
department of nursing, Tongmyong university
IM
10:00
Tongmyong Kim
Prn
Diclofenac
305
SC
1Amp
OD
75mg/2mL
registration number
H/S
45c
redo
output barcode
45a

FIG. 11

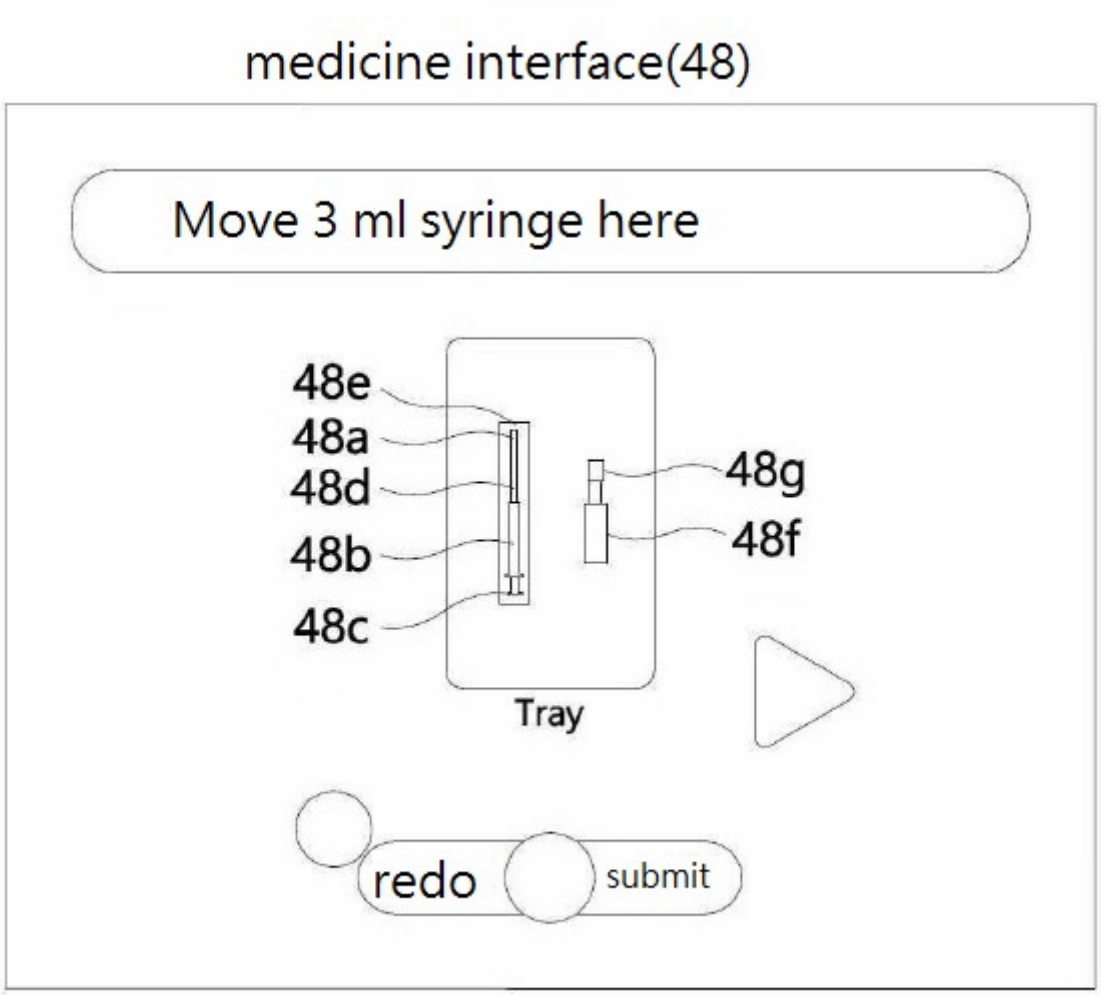

medicine interface(48)
Move 3 ml syringe here
48e
48a
48d
48b
48c
48g
48f
Tray
redo
submit

FIG. 12

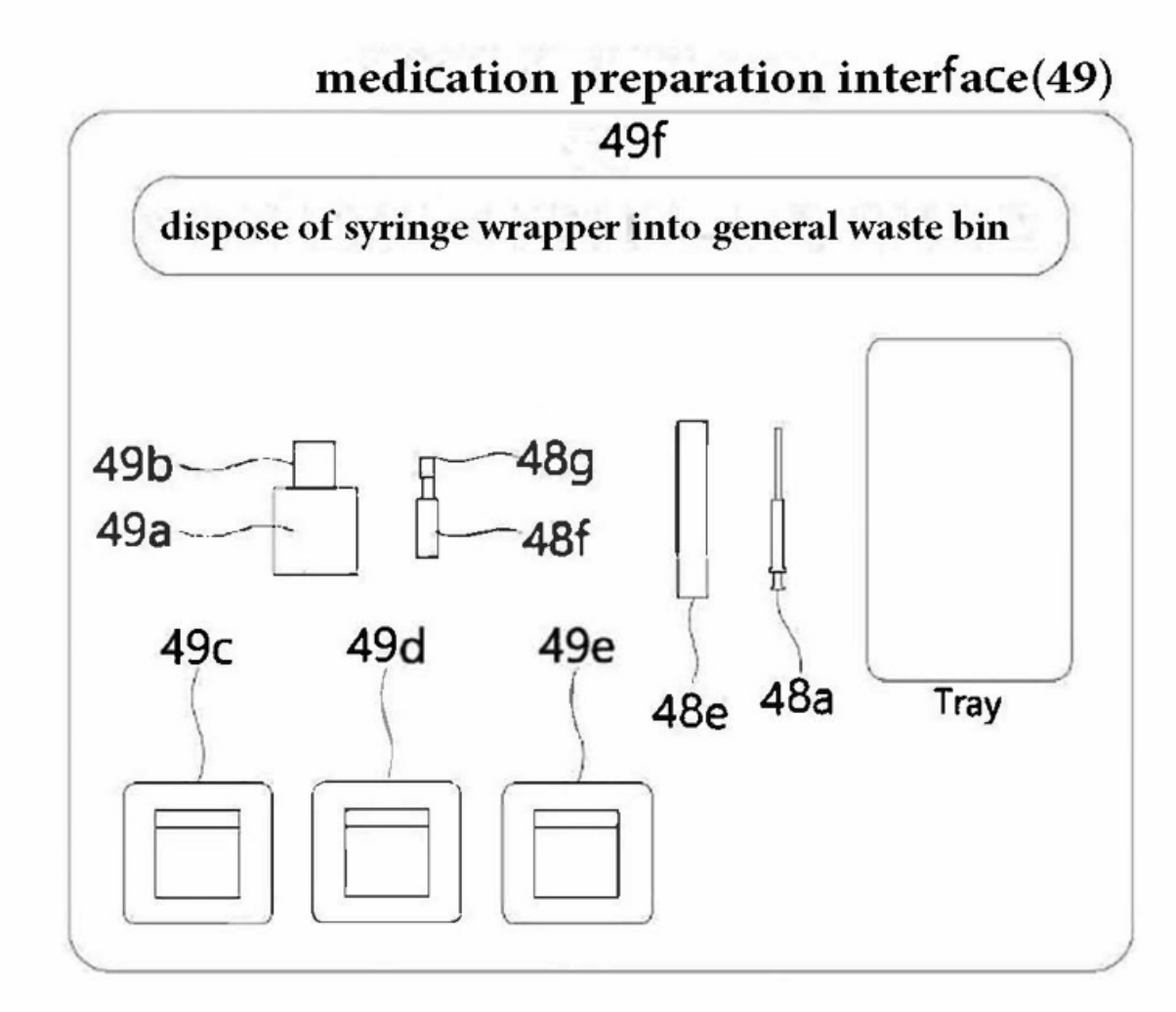

medication preparation interface(49)
49f
dispose of syringe wrapper into general waste bin
49b
49a
48g
48f
49c
49d
49e
48e
48a
Tray

FIG. 13

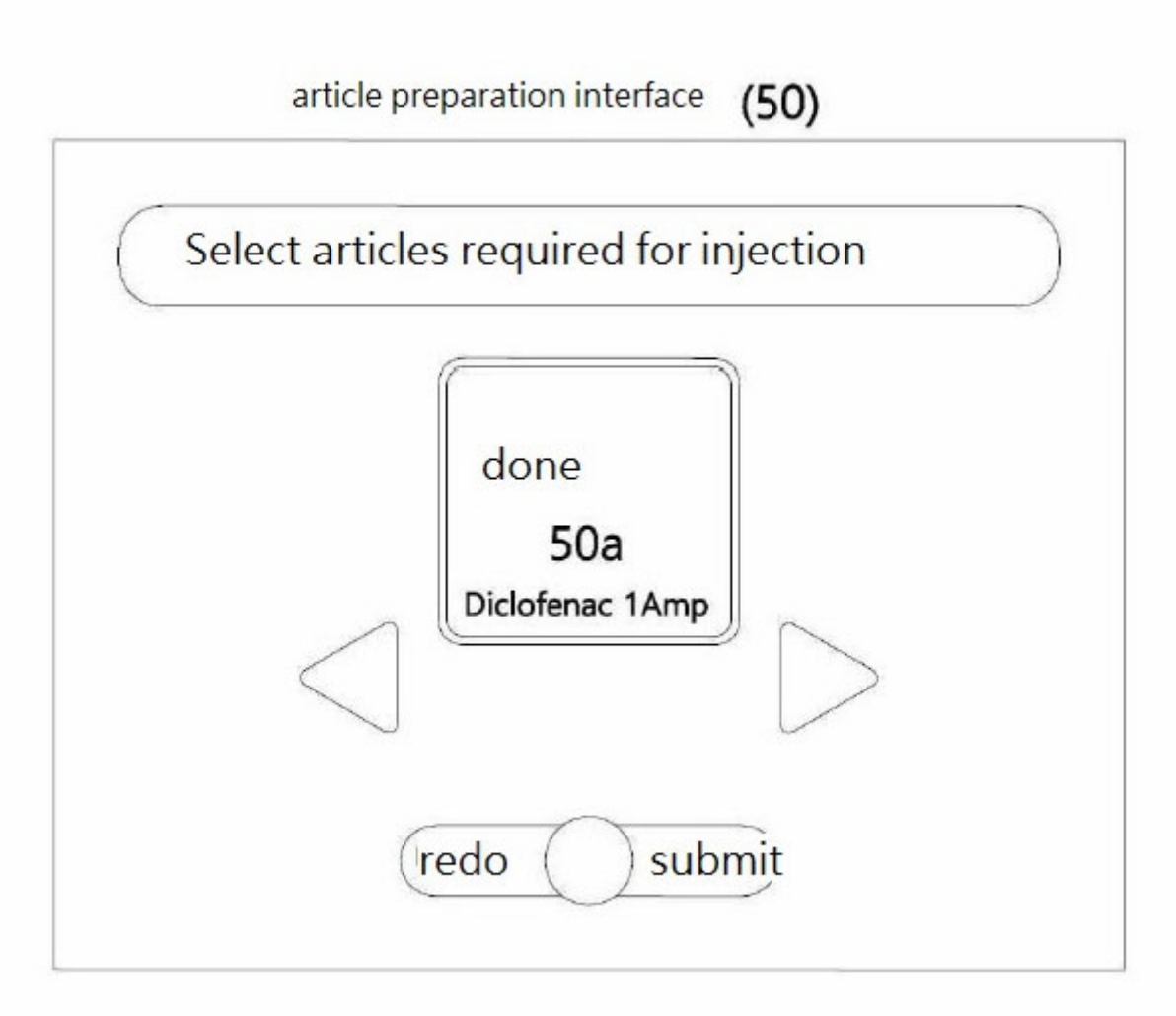

article preparation interface (50)
Select articles required for injection
done
50a
Diclofenac 1Amp
redo
submit

FIG. 14

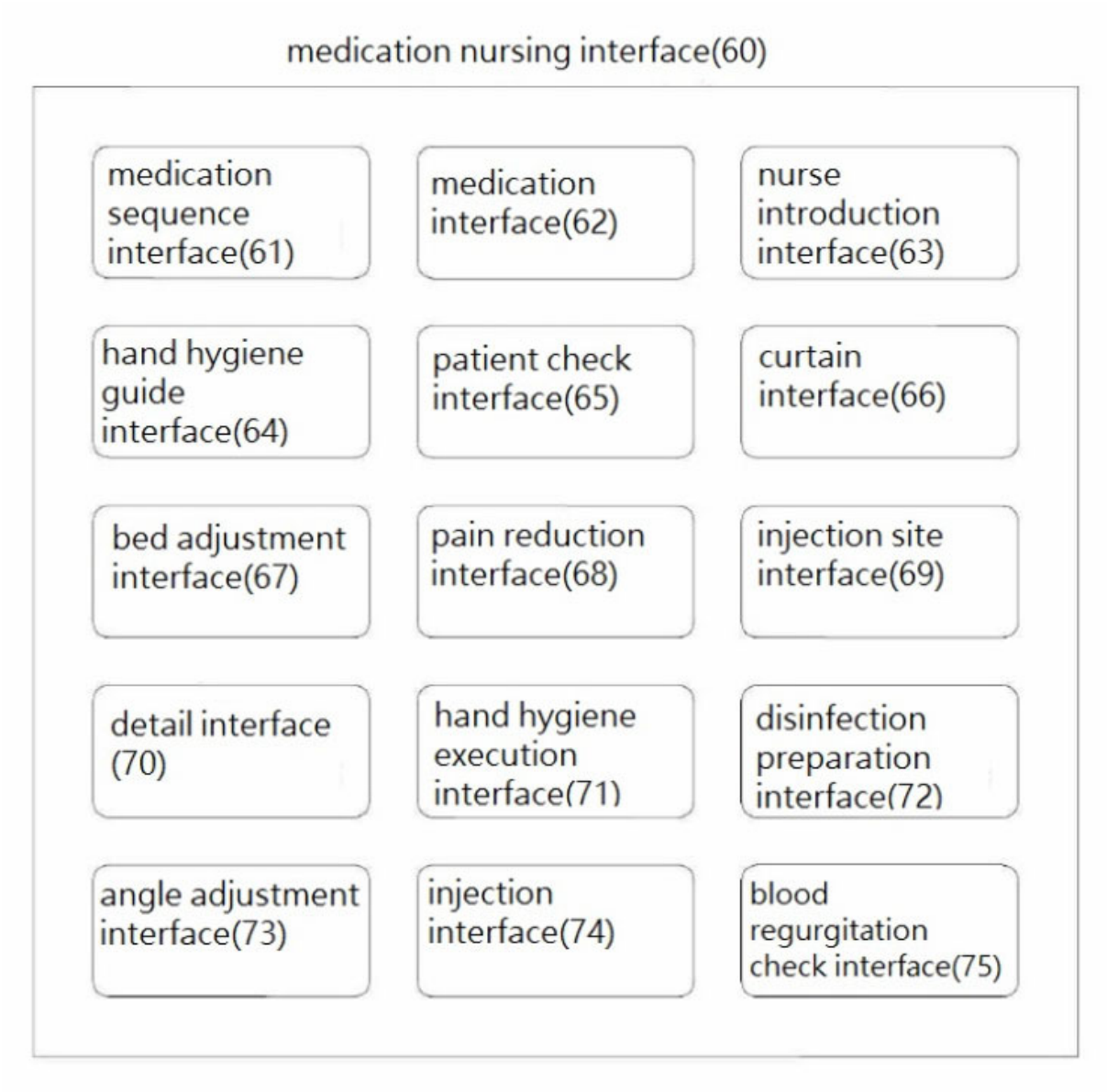

medication nursing interface(60)
medication sequence interface(61)
medication interface(62)
nurse introduction interface(63)
hand hygiene guide interface(64)
patient check interface(65)
curtain interface(66)
bed adjustment interface(67)
pain reduction interface(68)
injection site interface(69)
detail interface (70)
hand hygiene execution interface(71)
disinfection preparation interface(72)
angle adjustment interface(73)
injection interface(74)
blood regurgitation check interface(75)

FIG. 15

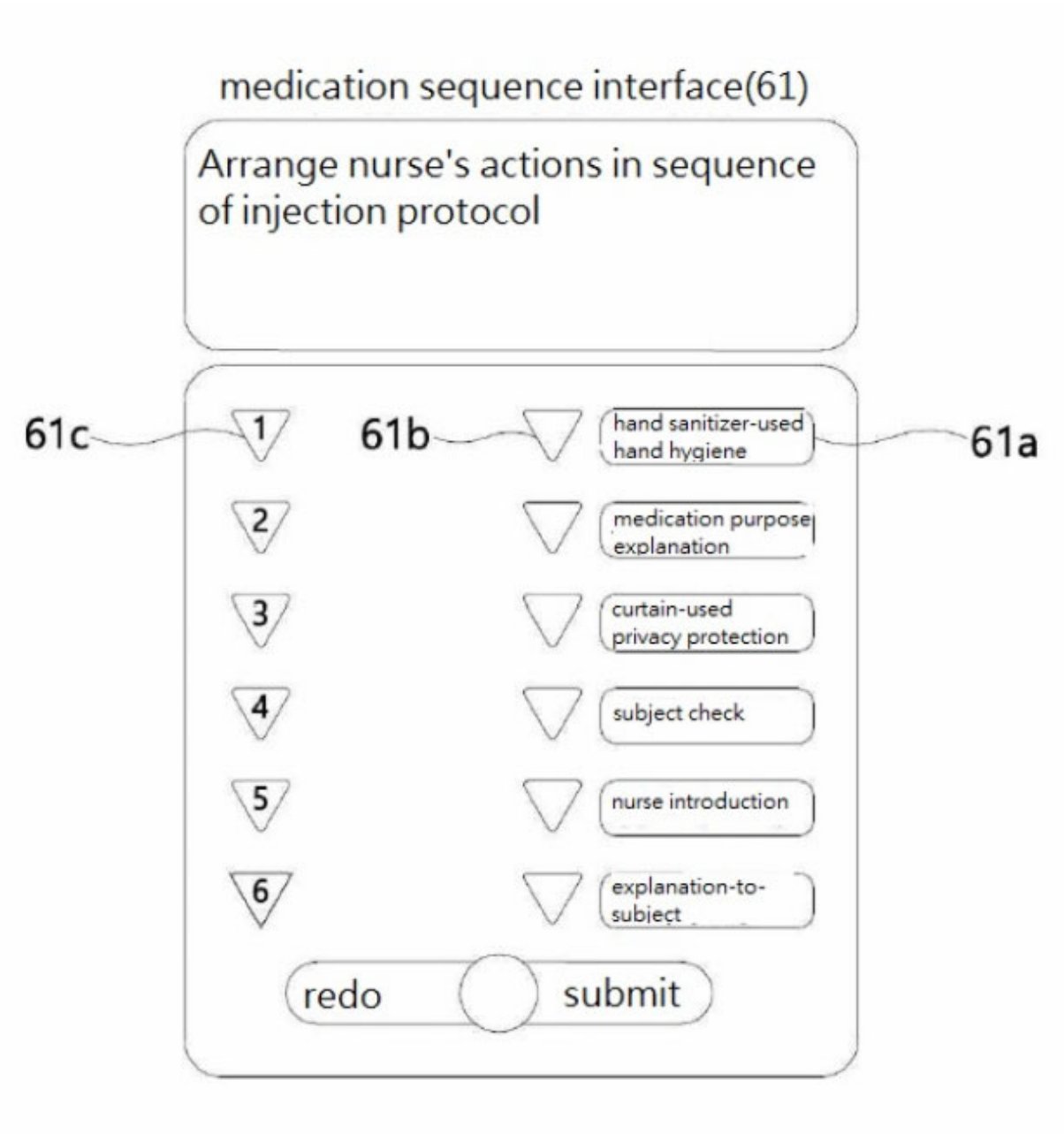

medication sequence interface(61)
Arrange nurse's actions in sequence of injection protocol
61c
61b
61a
1
2
3
4
5
6
hand sanitizer-used hand hygiene
medication purpose explanation
curtain-used privacy protection
subject check
nurse introduction
explanation-to-subject
redo
submit

FIG. 16

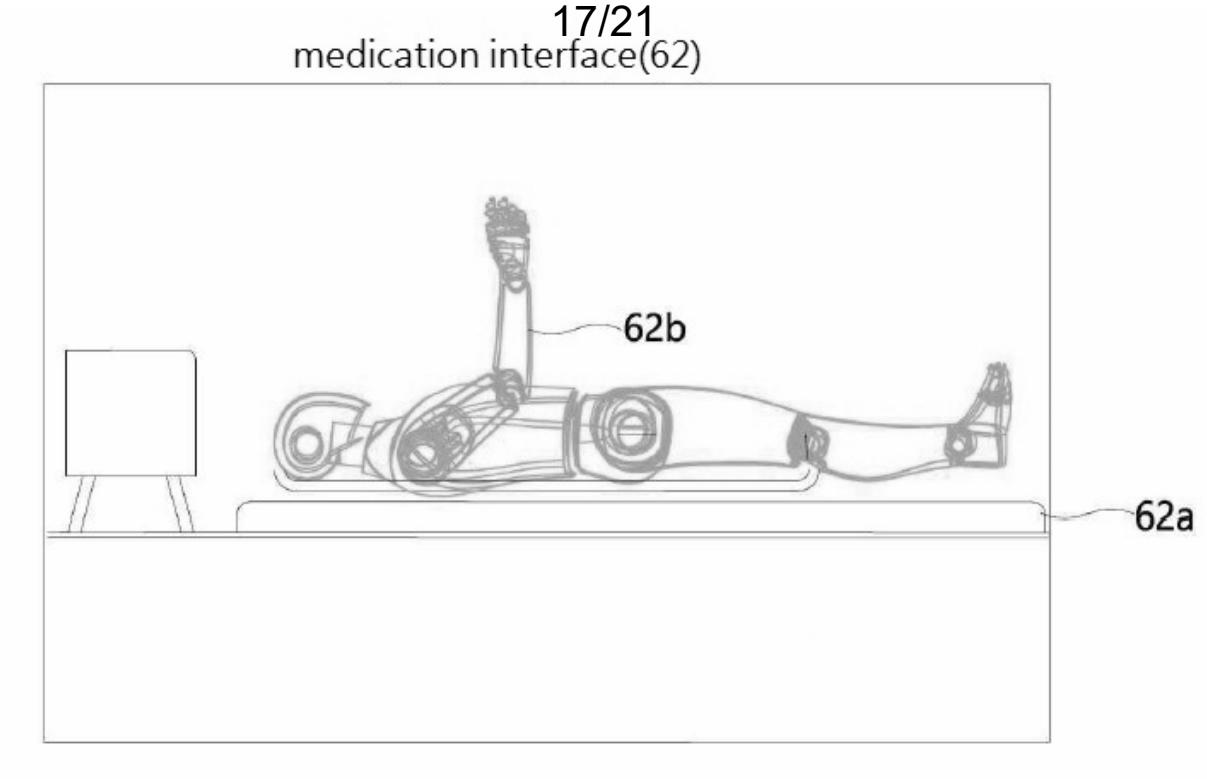


FIG. 17

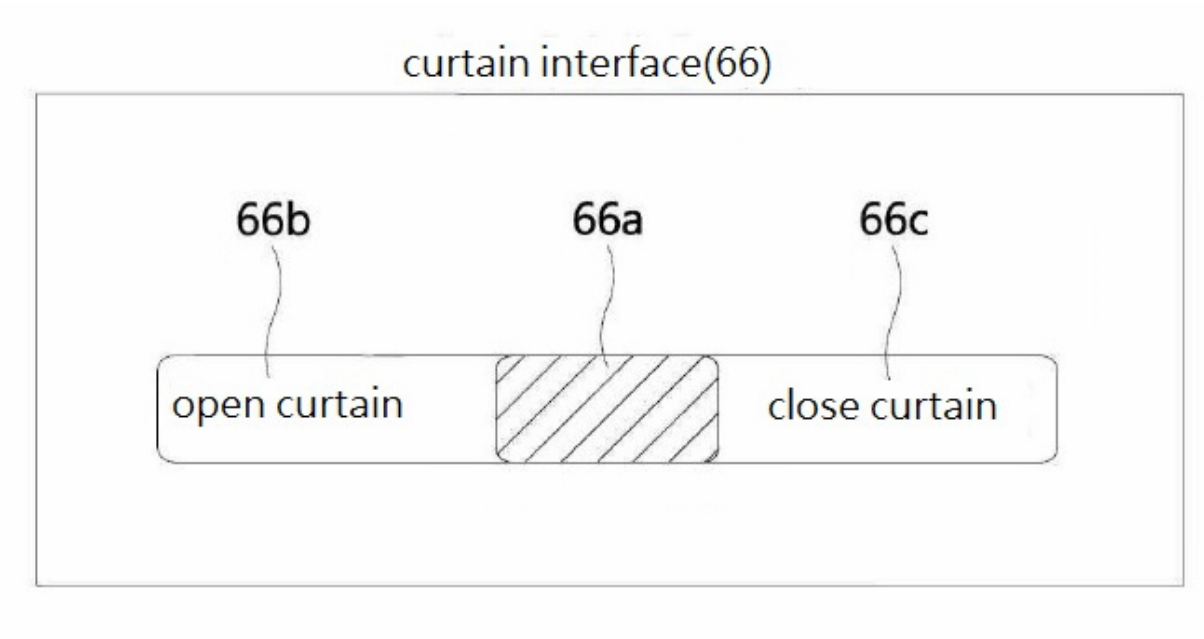

curtain interface(66)
66b
66a
66c
open curtain
close curtain

FIG. 18

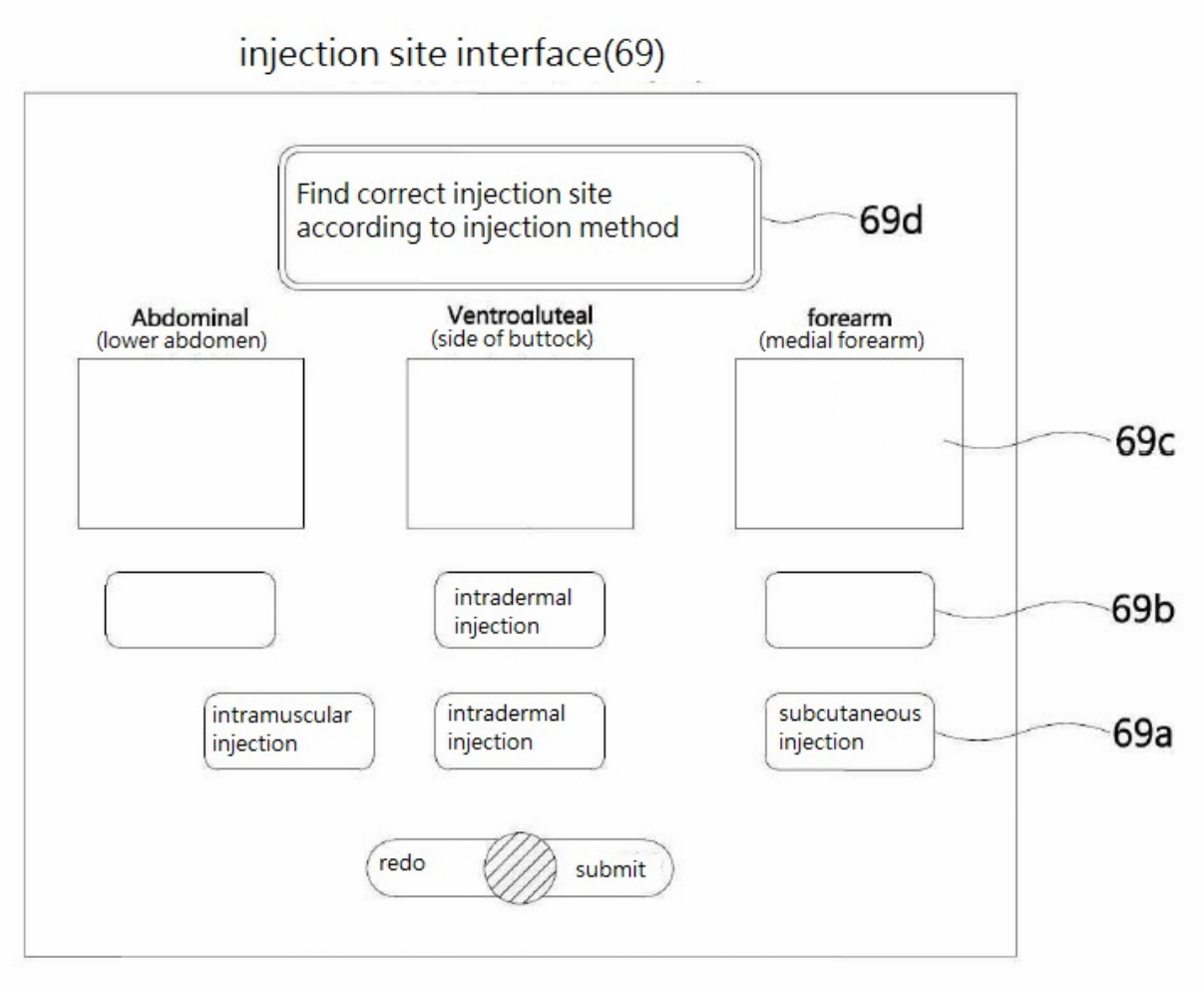

injection site interface(69)
Find correct injection site according to injection method
69d
Abdominal
(lower abdomen)
Ventrogluteal
(side of buttock)
forearm
(medial forearm)
69c
intradermal injection
69b
intramuscular injection
intradermal injection
subcutaneous injection
69a
redo
submit

FIG. 19

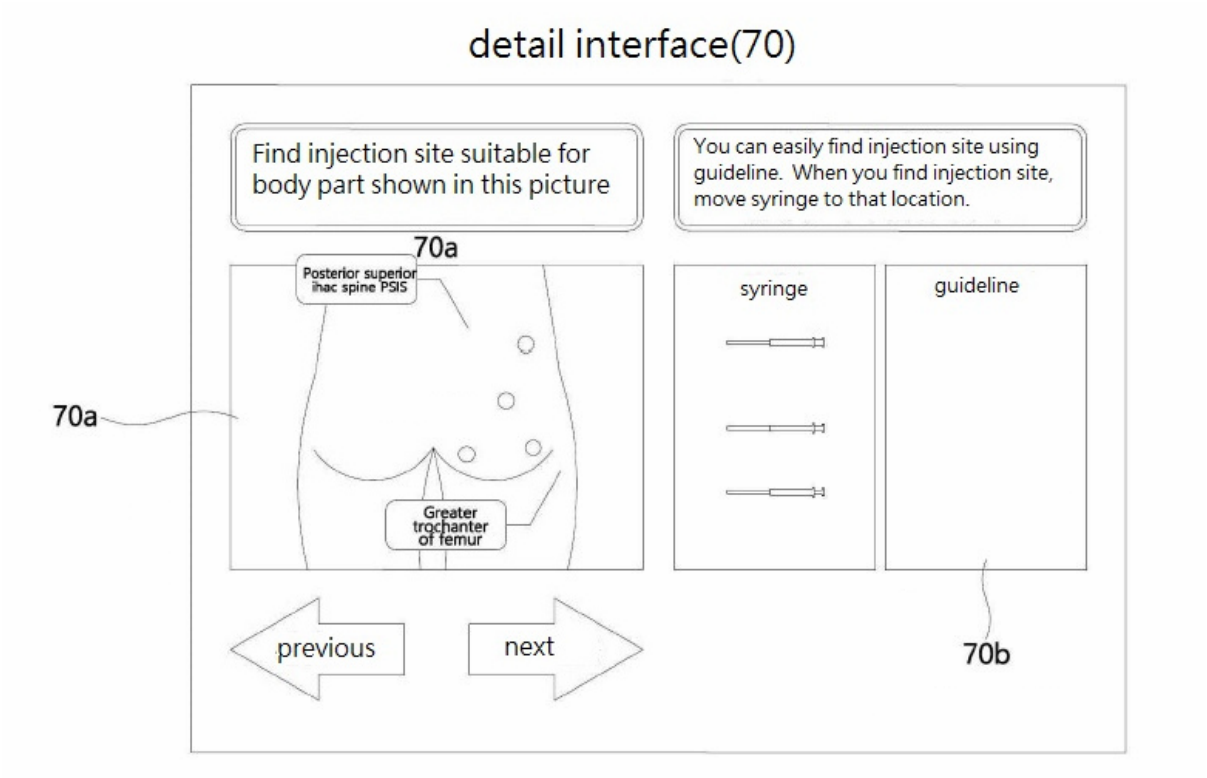

detail interface(70)
Find injection site suitable for body part shown in this picture
You can easily find injection site using guideline. When you find injection site, move syringe to that location.
70a
Posterior superior iliac spine PSIS
Greater trochanter of femur
70a
syringe
guideline
previous
next
70b

FIG. 20

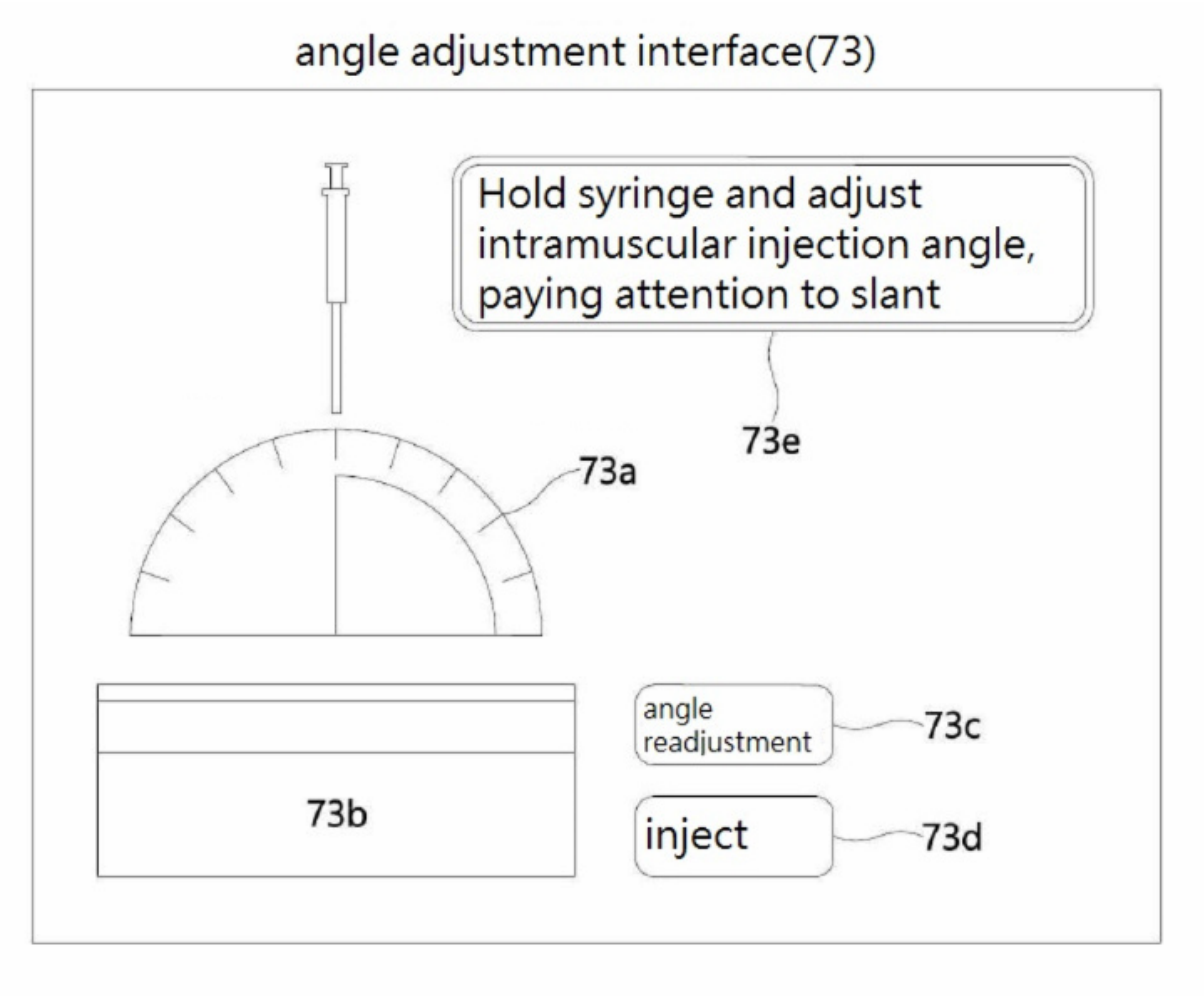

angle adjustment interface(73)
Hold syringe and adjust intramuscular injection angle, paying attention to slant
73e
73a
73b
angle readjustment
73c
inject
73d

FIG. 21