

Docket No.: UA12-0002
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Jayoen KIM, et al.

Application No.: 61/583,609

Confirmation No.: 7927

Filed: January 6, 2012

Art Unit:

For: REMOTE APPLICATION

Examiner:

**REPLY TO LETTER RE NON-ENGLISH LANGUAGE
APPLICATION PAPERS IN A PROVISIONAL APPLICATION**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Examiner:

In response to the Letter re Non-English Language Application Papers in a Provisional Application forwarded with the Official Filing Receipt dated January 18, 2012, for the above-identified Provisional application, and in accordance with 37 C.F.R. 1.78(a)(5), enclosed are:

1. An English Translation of the Specification; and
2. A statement of Verification dated September 6, 2012.

Respectfully submitted,

Dated: December 20, 2012
Customer No. 67487

By: /Andrew S. PARK/
Andrew S. PARK
Registration No.: 47,841

CERTIFICATE OF VERIFICATION

I, Hyung Ju LIM of third floor, Mungap Building, 619-19, Yeoksam-dong, Gangnam-gu, Seoul, Korea state that the attached document is a true and complete translation to the best of my knowledge of the Korean-English language and that the writings contained in the following pages are correct English translation of the specification and claims of the US Patent Application No. 61/583,609.

Dated this 6th day of September, 2012

Signature of translator: _____



Name: Hyung Ju LIM

PROVISIONAL APPLICATION FOR UNITED STATES PATENT
IN THE NAMES OF

Jayoen KIM and Daeyol NA

for

REMOTE APPLICATION

Customer Number: 67487

Attorney Docket Number: UA12-0002

Total Number of pages: 129 (including cover)

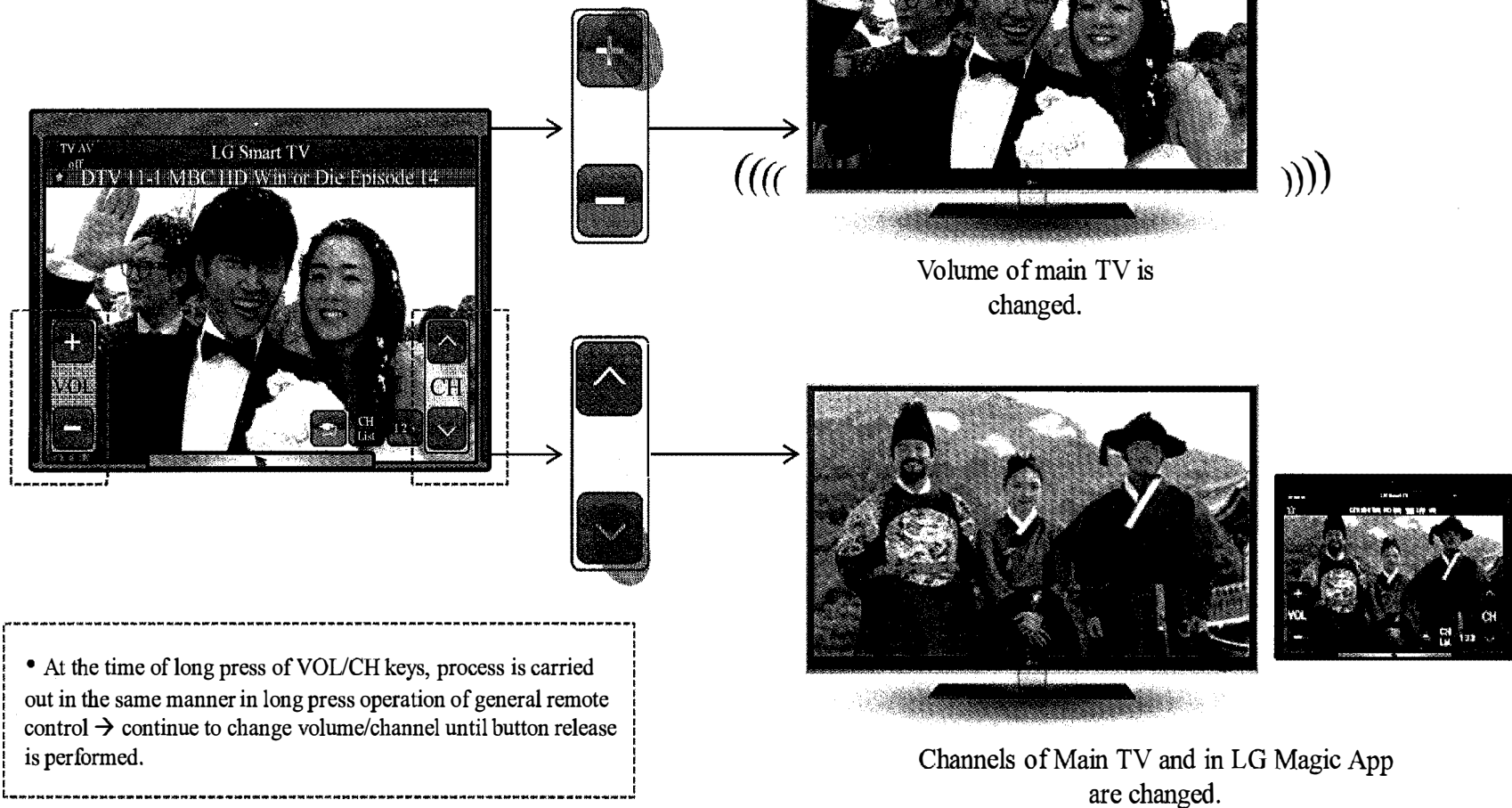
1.1 mini TV

At first entry after pairing, a page “LG Smart TV (mini TV)” is provided.



1.2 CH / VOL Change

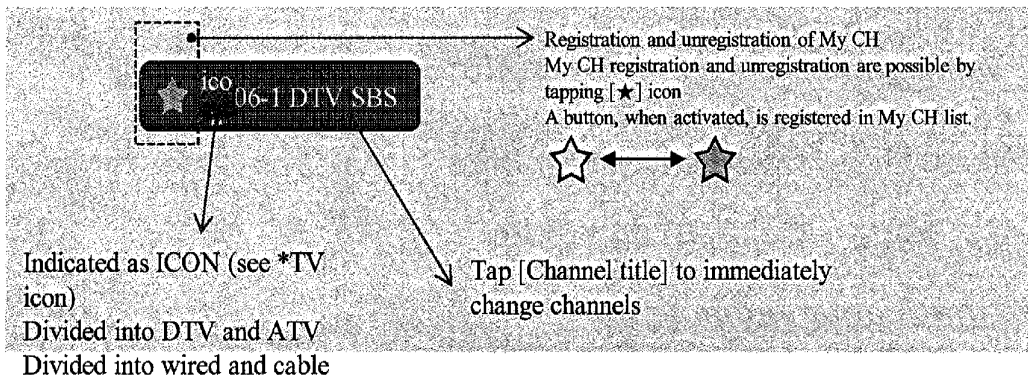
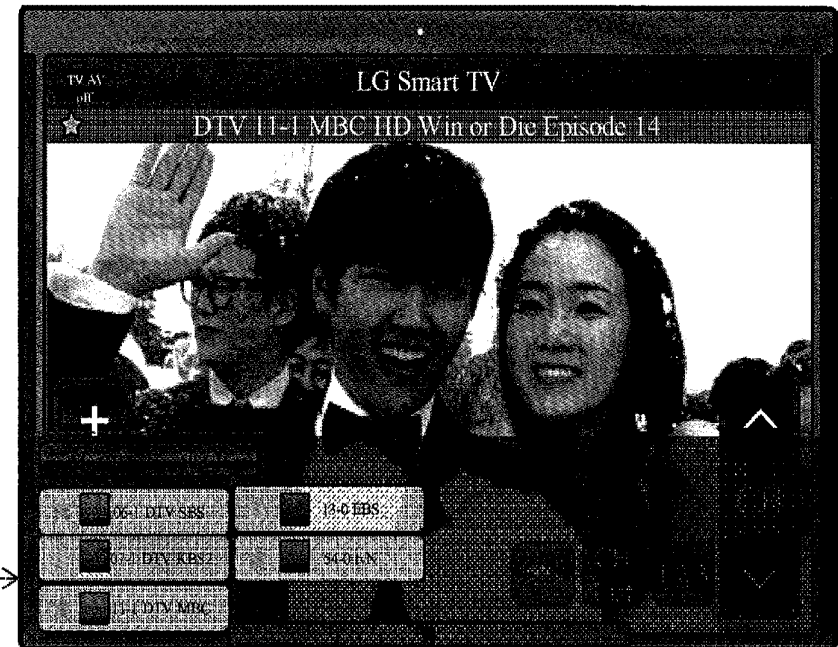
1) Press CH and VOL buttons to manipulate channel / volume of main TV



1.2 CH / VOL Change

2) My CH / All CH

☆ ↔ ☆ MyCH registration and unregistration are possible at the banner.



Channel list

<Constituted by two taps>

My CH: channels registered as favorite channels in remote app (different from FAV channels in main TV) are indicated
All CH: a list of channels watchable in remote app is provided (a list of all channels searched in main TV is provided)
-> Operations of My CH and All CH are the same.

1.2 CH / VOL Change

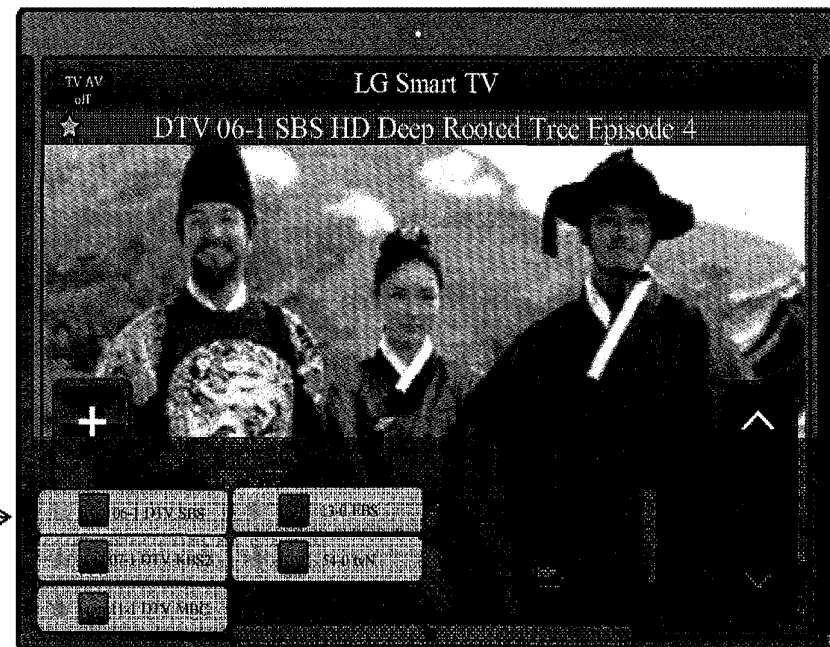
2) My CH / All CH



Changed to a
corresponding channel



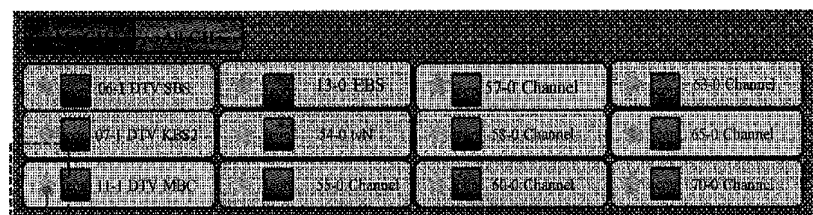
Tap a channel to be changed in channel list



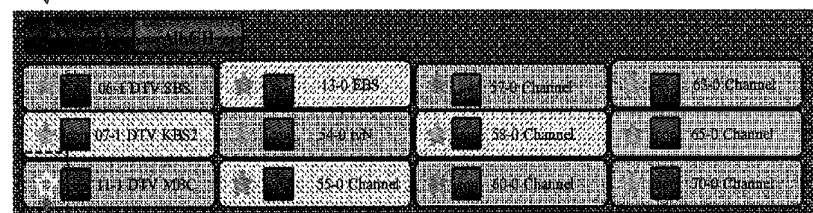
1.2 CH / VOL Change

2) My CH / All CH

When [★] button in My CH list is pressed to unregister My CH, [★] button continues to be displayed in an unregistered state, i.e. in a state of [☆], if [★] button continues to be in the list.



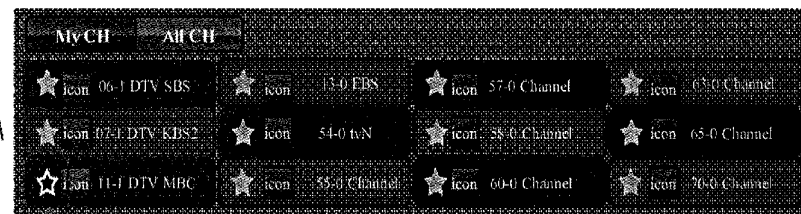
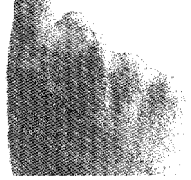
Tap [★] button



-A My CH unregistration state is displayed.



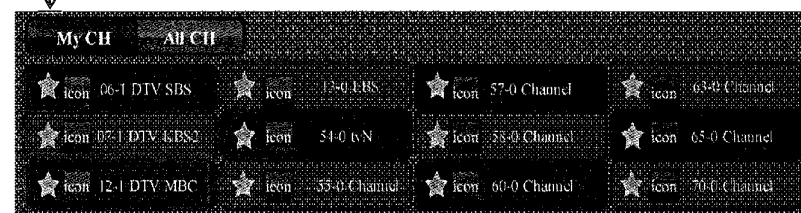
Perform left and right flicking to move in list



-A My CH unregistration state is displayed.



Exit CH list using other functions except My CH and then reenter CH list



Deleted from unregistered CH list

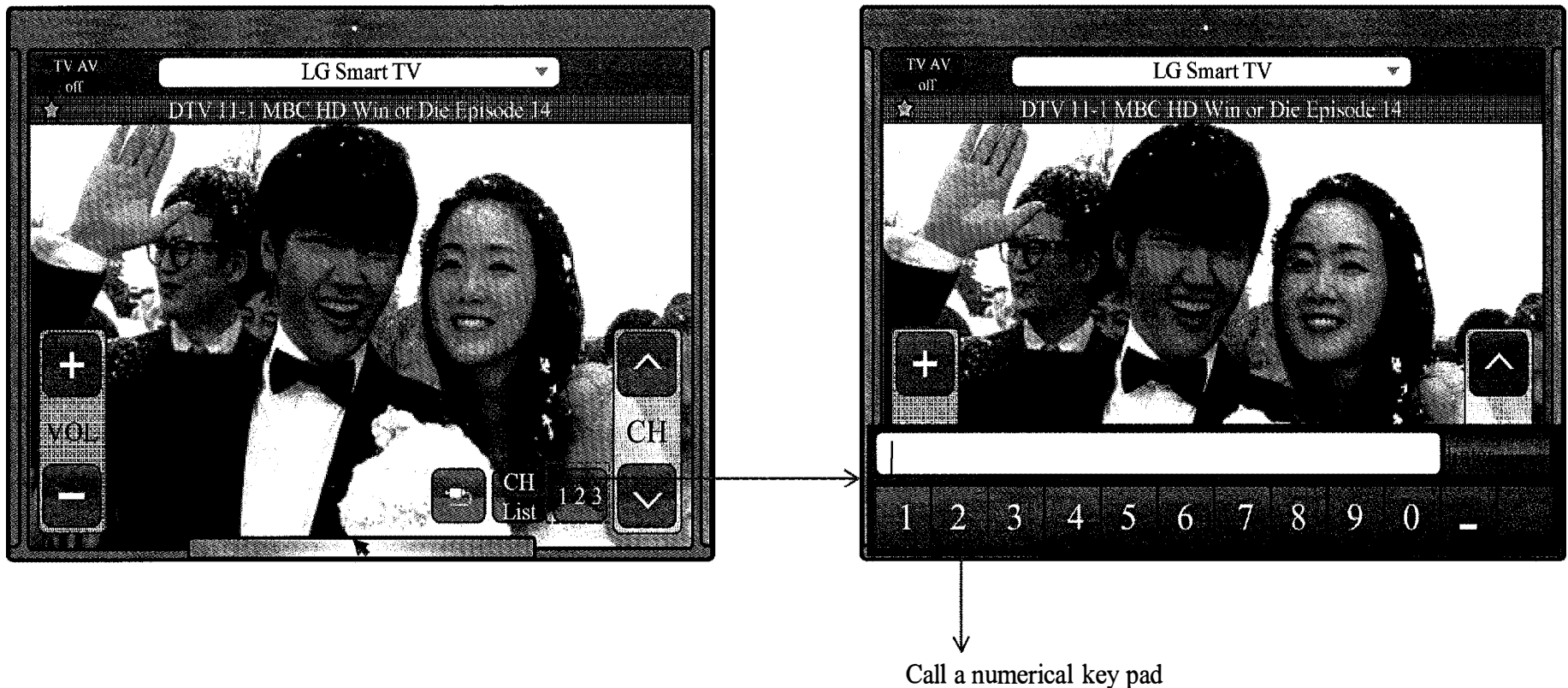
1.2 CH / VOL Change

3) Change channels using numerical key pad

Call a numerical key pad and directly input a channel number to provide similar recommended channel information:

The same functions as CH list in TV

Direct channel change is possible by direct number input.

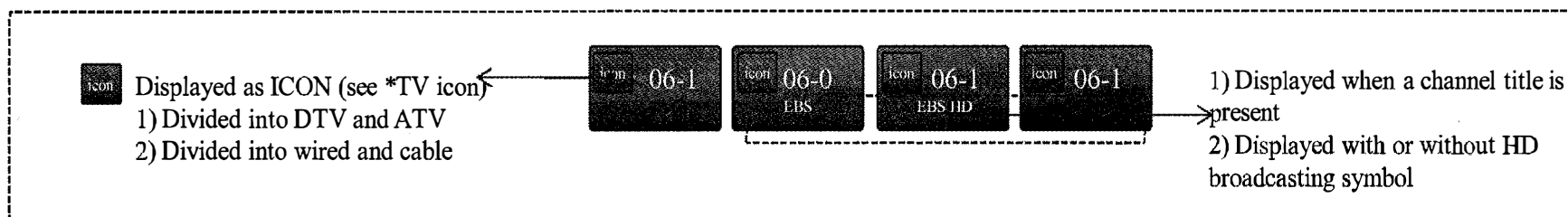
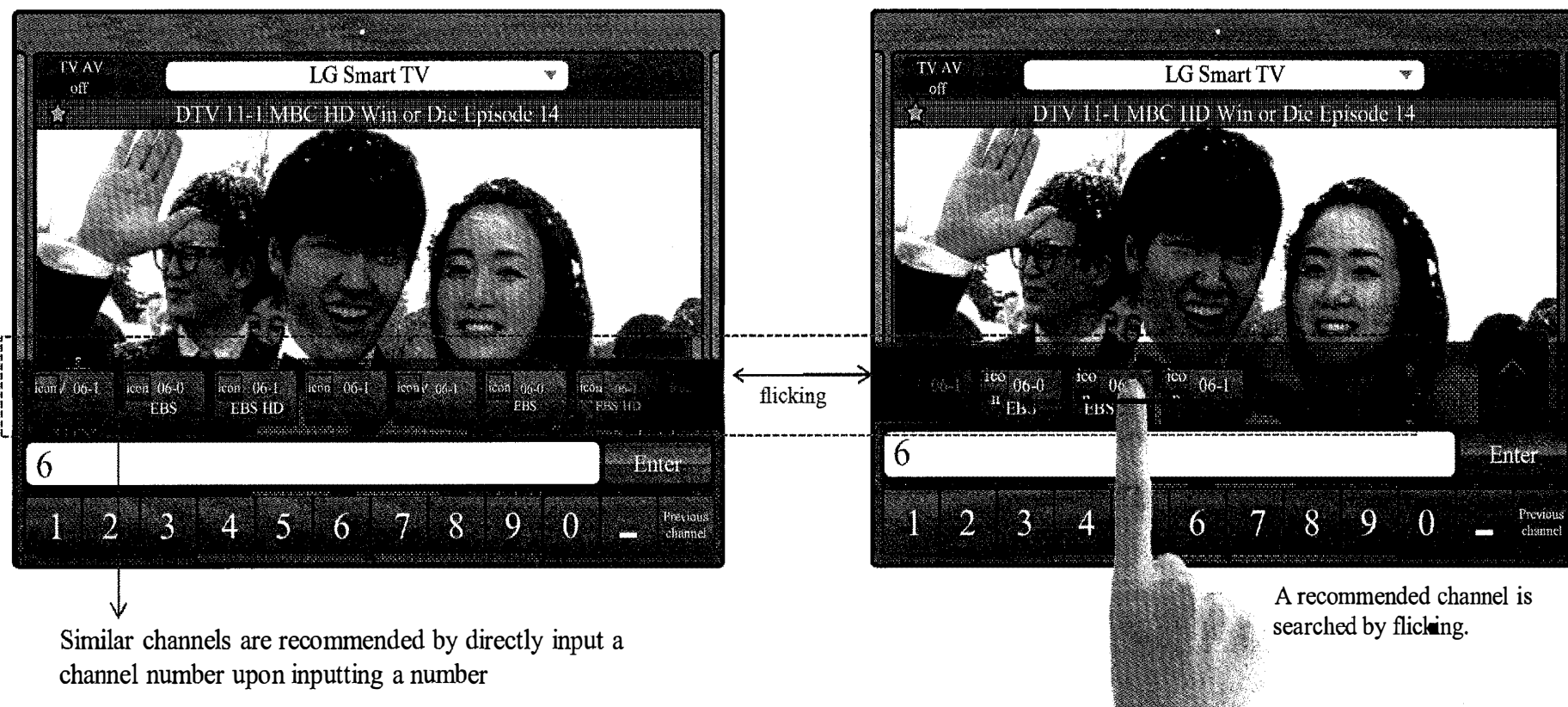


1.2 CH / VOL Change

3) Change channels using numerical key pad

Call a numerical key pad and directly input a channel number to provide similar recommended channel information: The same functions as CH list in TV

Direct channel change is possible by directly input number.



1.2 CH / VOL Change

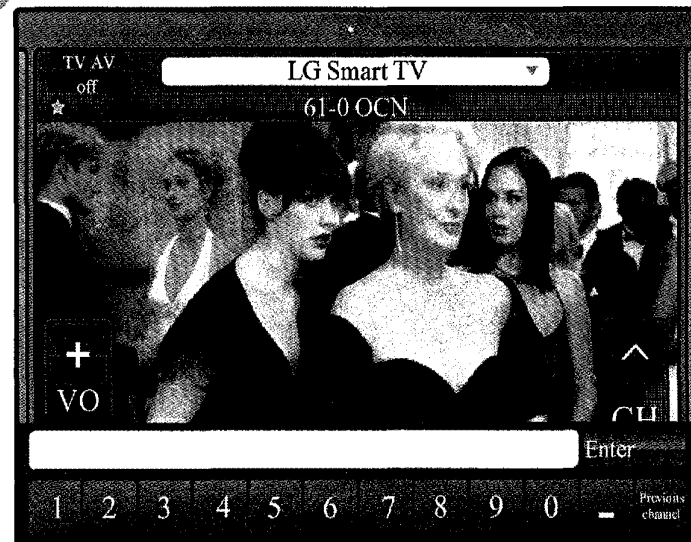
3) Change channels using numerical key pad

Channel change is possible by selecting a similar recommended channel and pressing [Enter] button.

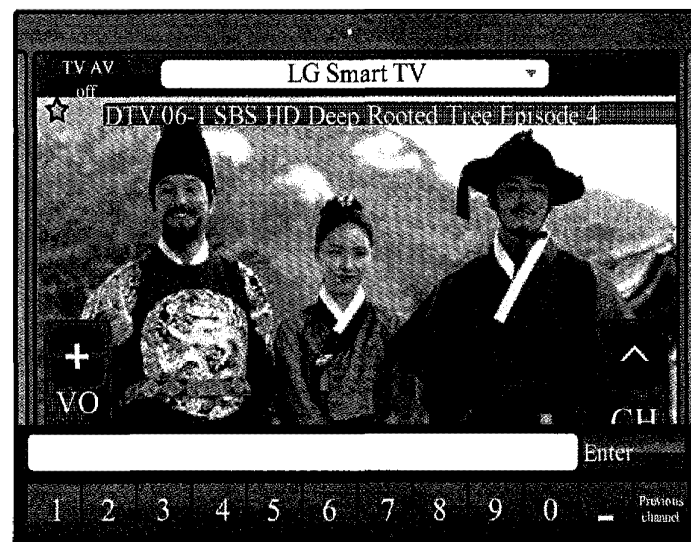
Tuned to other channels depending upon situation



1 When a recommended channel is selected

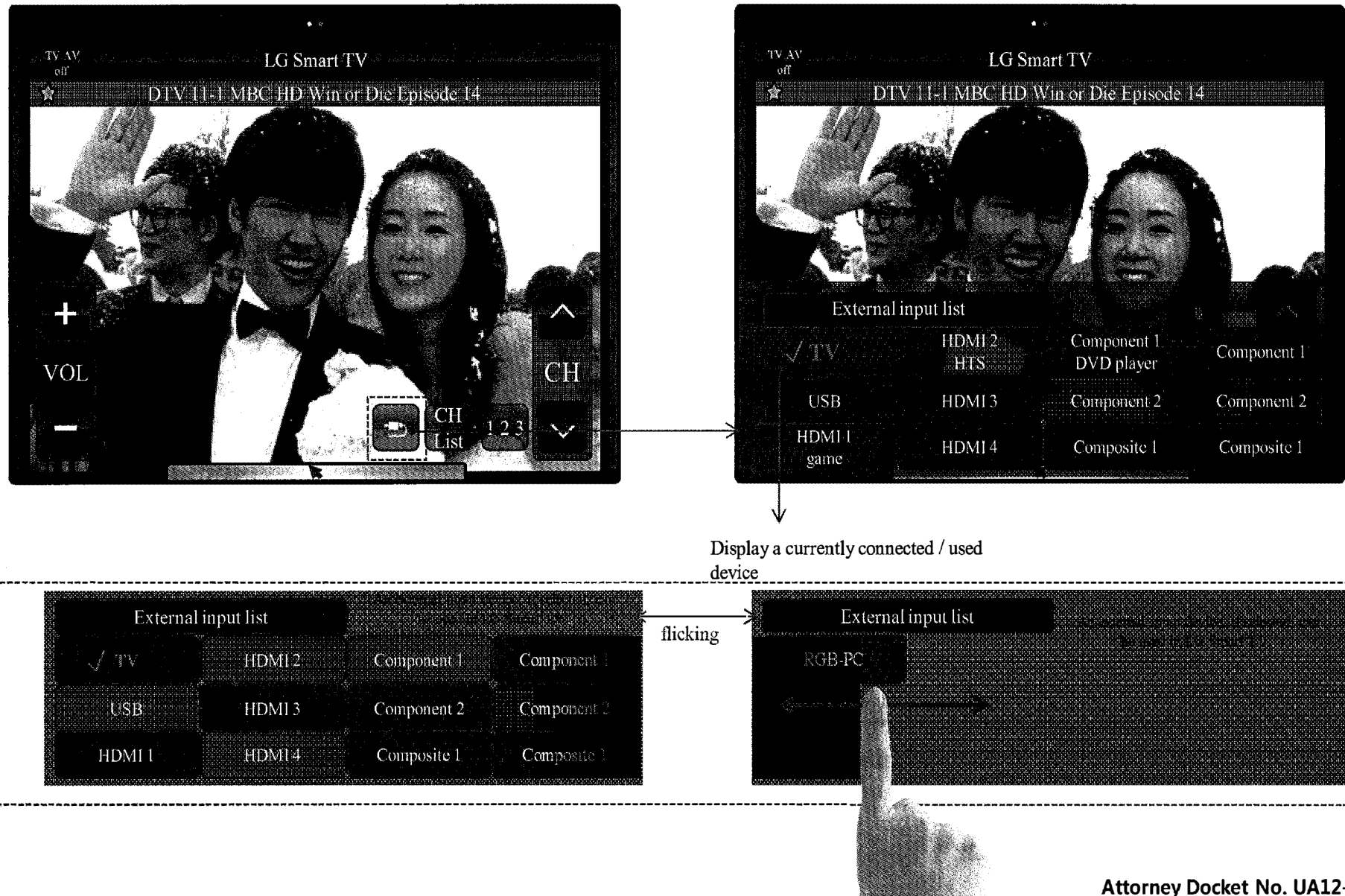


2 Tap [Enter] button



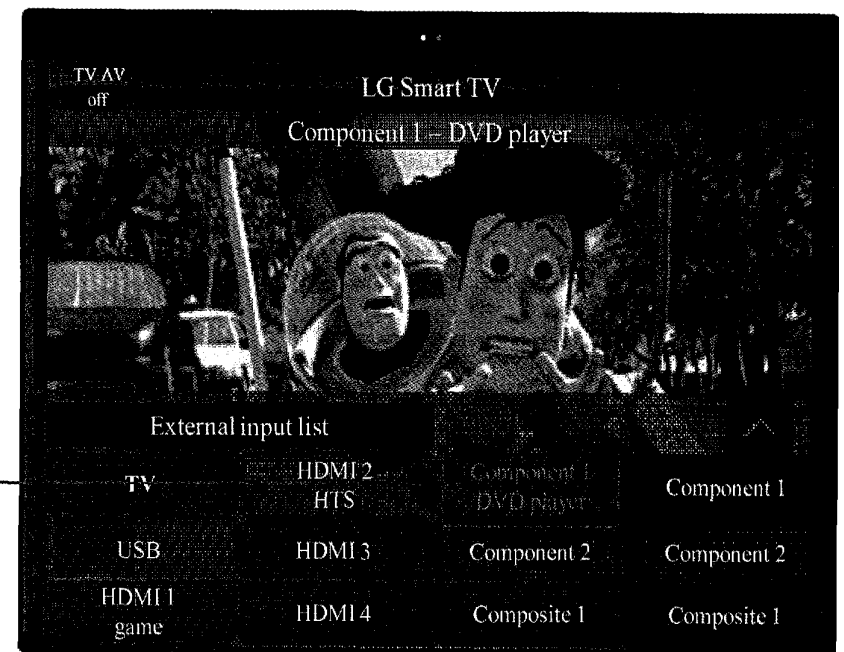
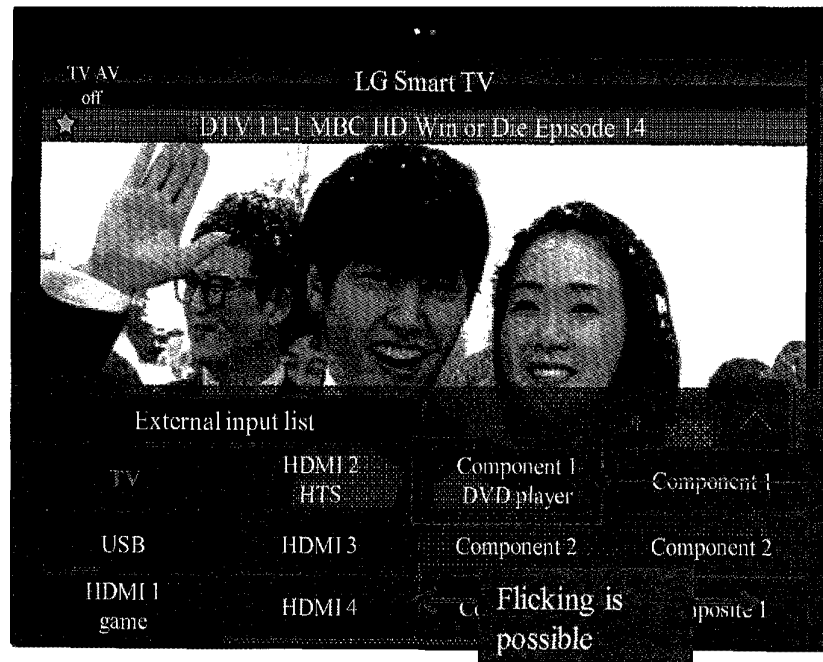
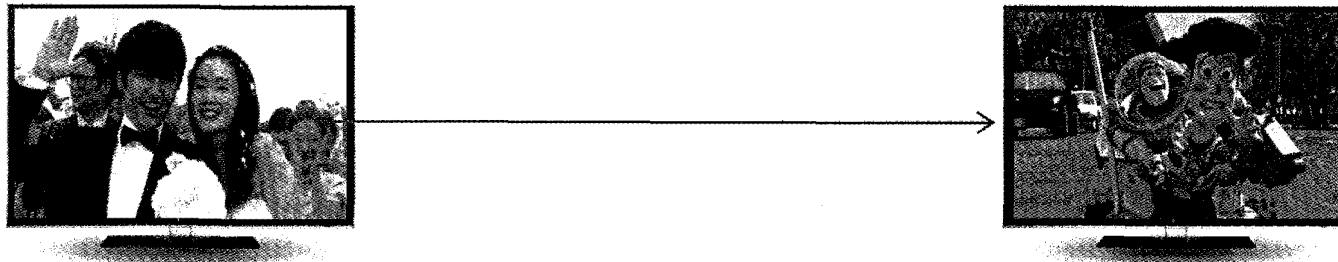
1.3 input list

Switching between external input devices



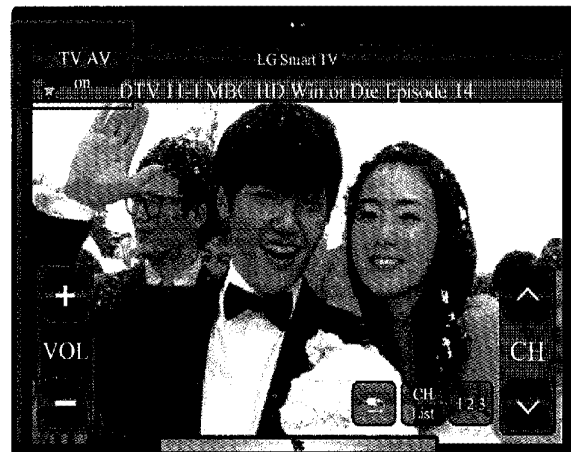
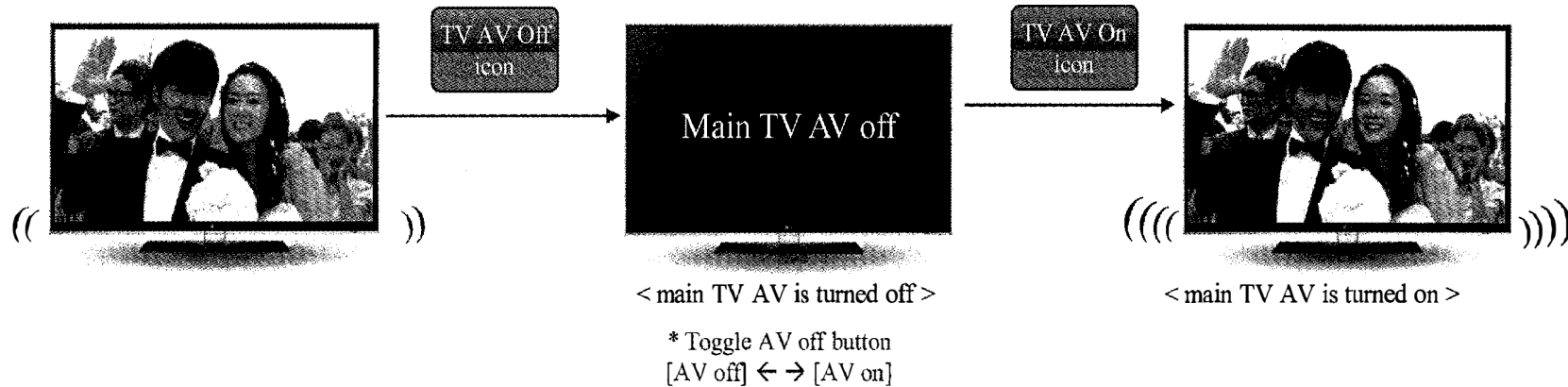
1.3 input list

Switching between external input devices



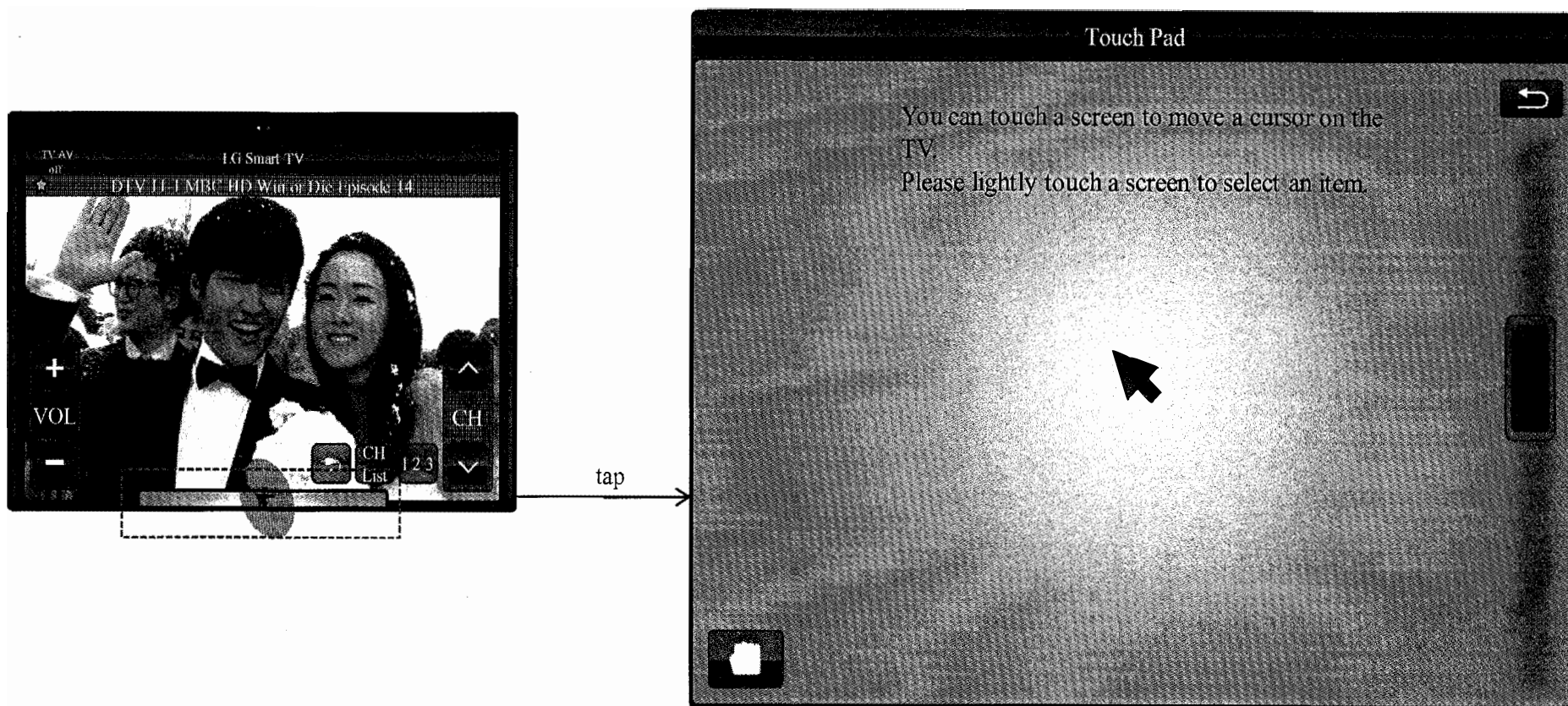
1.4 .main TV AV on/off

When watching only using a mobile device, press a [TV AV off] button to turn off video / audio of main TV (on is also possible).



1.5 Calling of touch pad

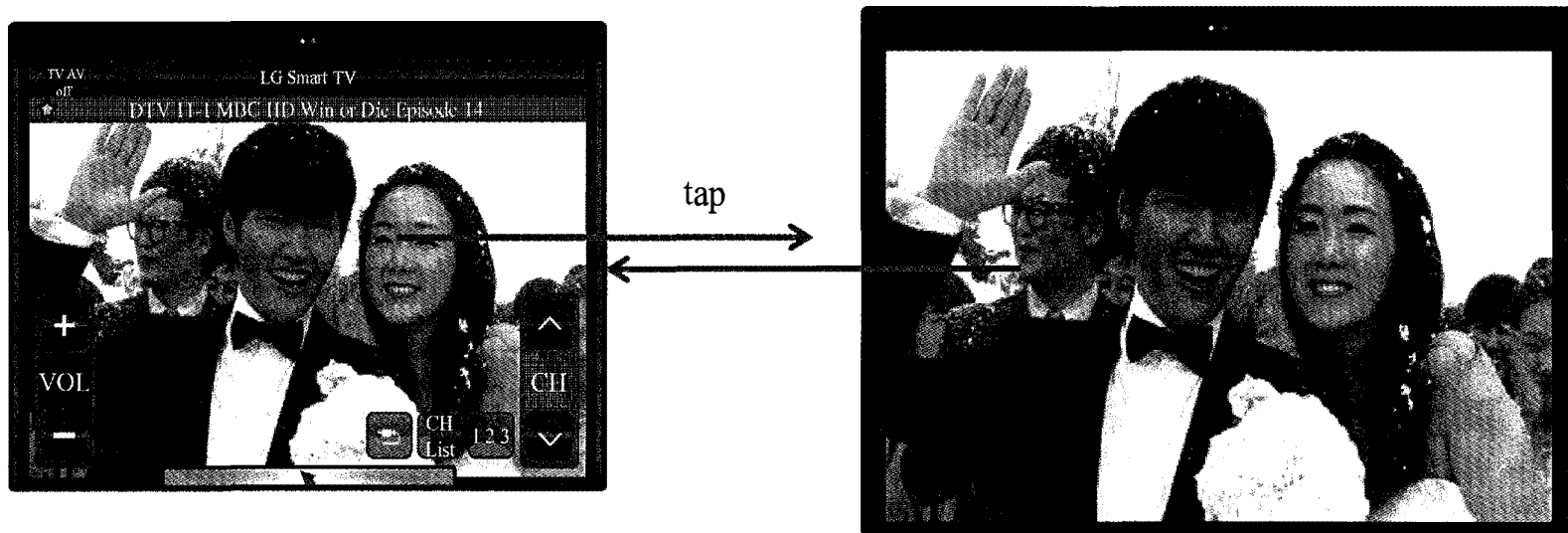
Tap a touch pad queue at the lower end of the mini TV page to call a touch pad as a full screen.



1.6 When a region except buttons is tapped, a full screen mode is provided

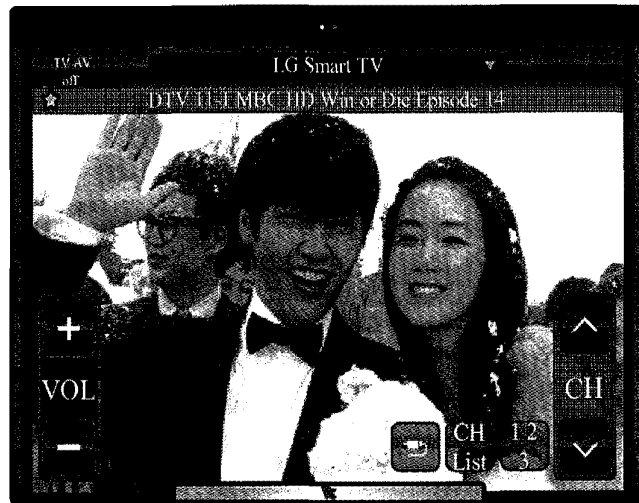
When a region except buttons in mini TV is tapped, an image is switched to a full screen mode.

When a region except buttons is tapped, a full screen mode is provided.



1.6 When a region except buttons is tapped, a full screen mode is provided

When a region except buttons in mini TV is tapped, an image is switched to a full screen mode.



tap



Time out (2 seconds)

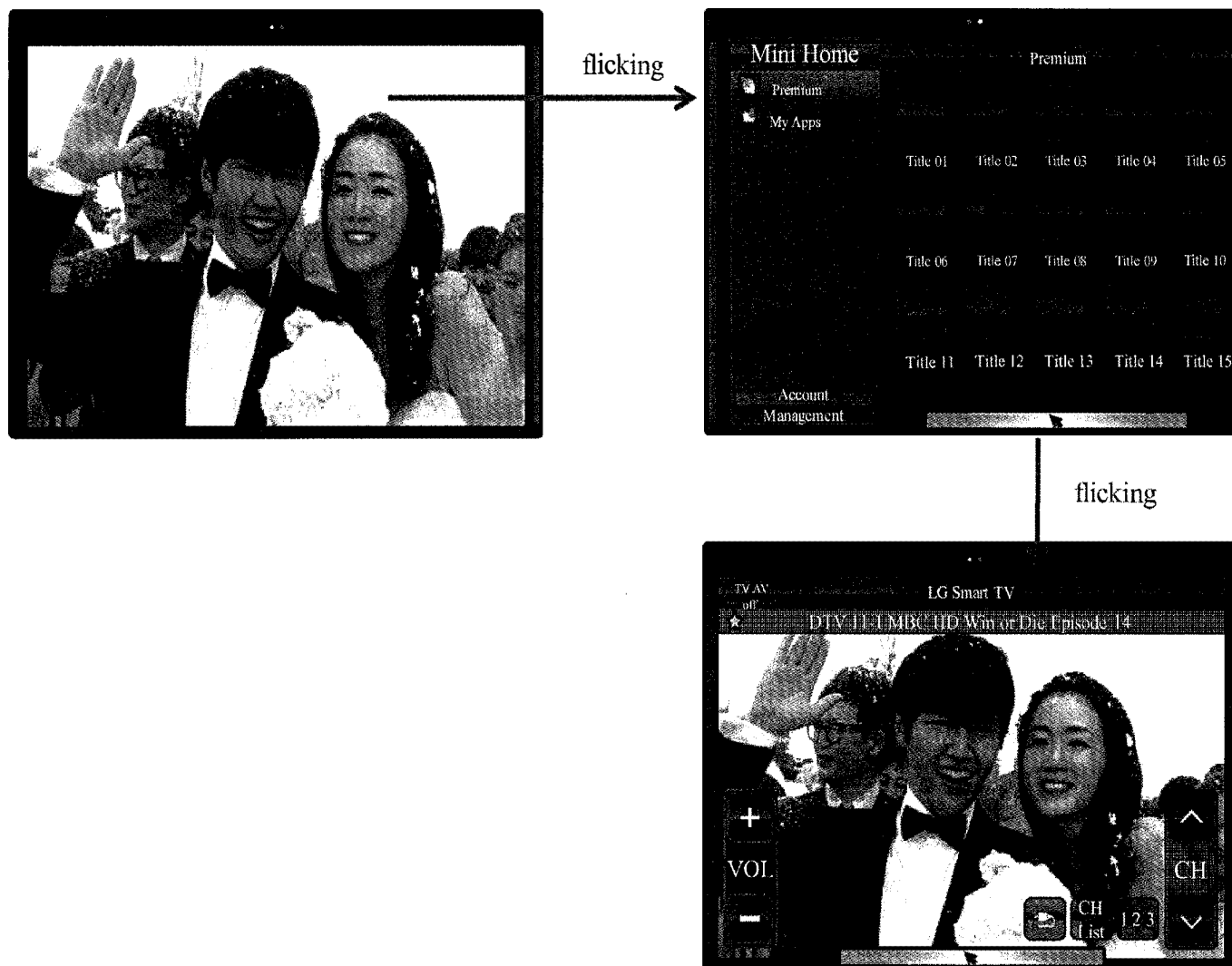


*Buttons disappear
and an image is
maximized.

1.6 When a region except buttons is tapped, a full screen mode is provided

When a region except buttons in mini TV is tapped, an image is switched to a full screen mode.

When a region except buttons is tapped, a full screen mode is provided.

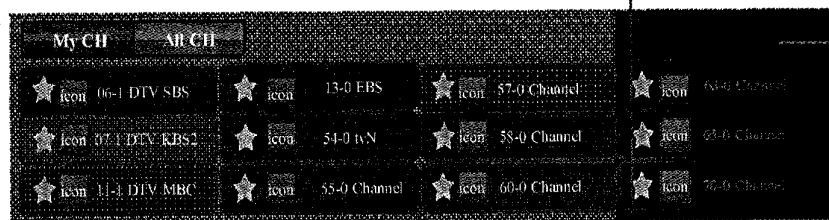


1.7 Definition of mini TV related effects / animations

Definition of animation effects on a list screen

Addition of animations / effects

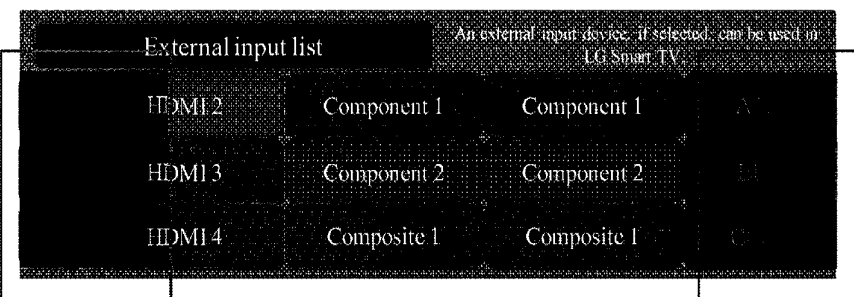
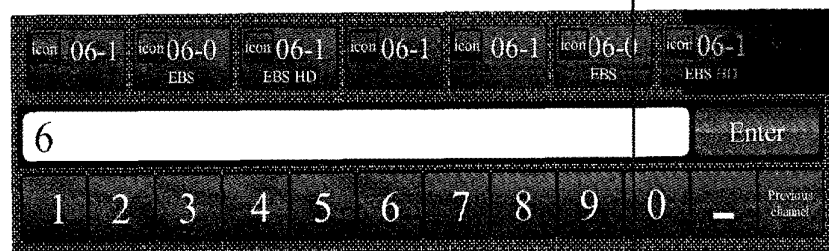
1) A channel list type



< A left and right flicking list type >

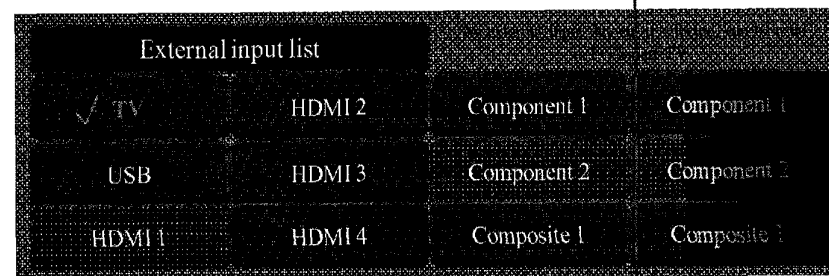
In case of one or more pages of list, left and right gradation effects are provided.

2) A numerical keypad and similar channel list type



If items in the list are present at left and right sides on the basis of the current page, gradation effects are provided to both left and right sides.

3) An external input type



1.7 Definition of mini TV related effects / animations

Addition of animations / effects

Definition of animations when calling / closing a list in a screen



When calling a list type



Rapidly scrolled down (bottom → top)

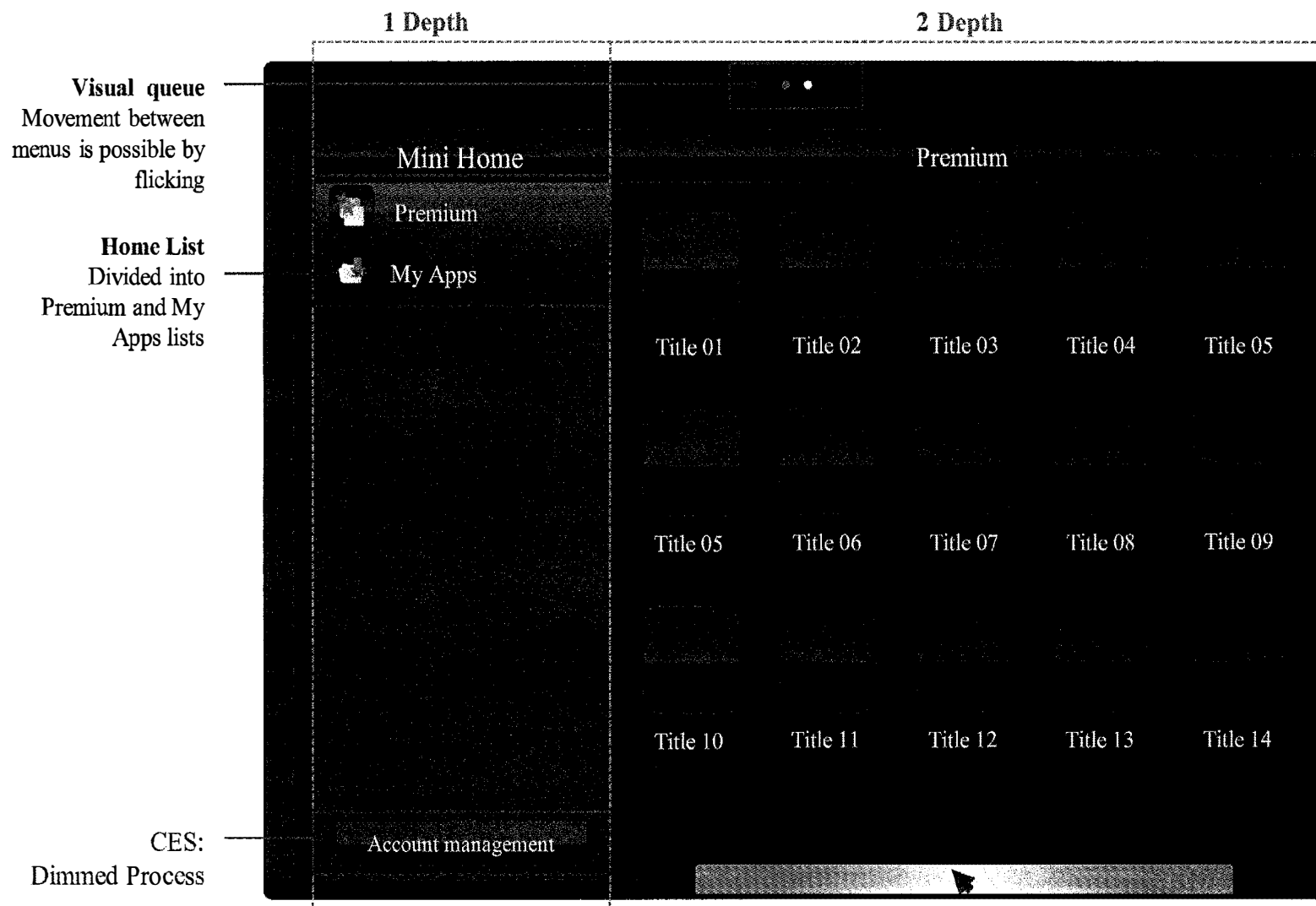


Rapidly scrolled down (top → bottom)



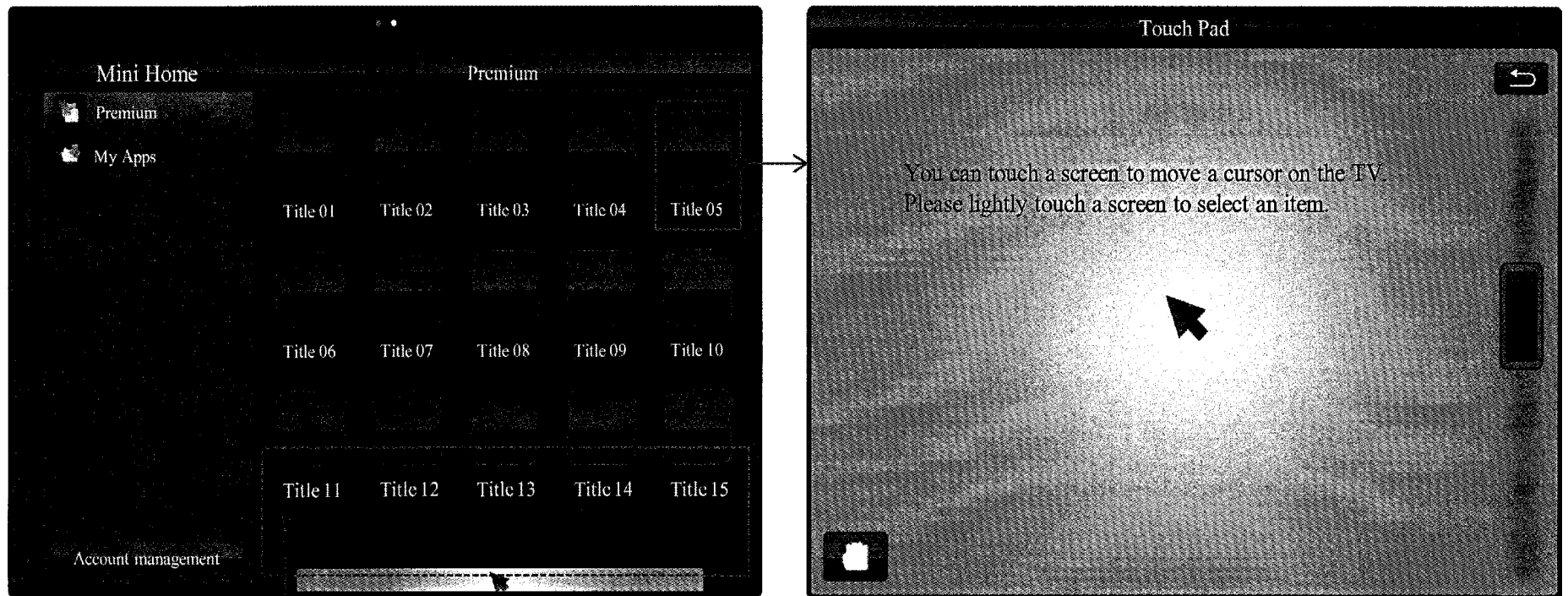
2.1 Screen configuration

First page of Mini Home is divided into Premium and My Apps lists



2.2 Premium

A touch pad is automatically performed when CP (app) is executed at Premium in Mini Home.

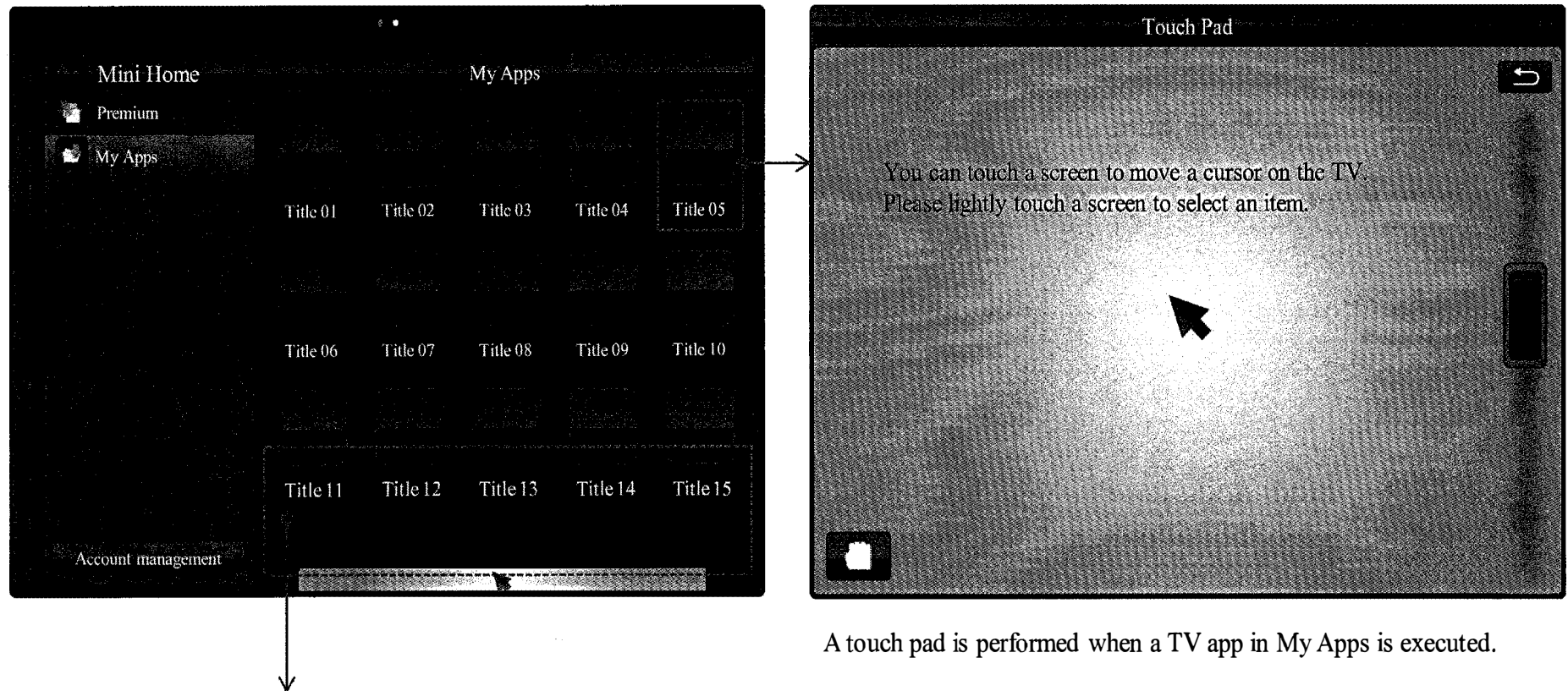


A touch pad is performed when a Premium CP app is executed.

In case of one or more pages of TV apps,
up and down gradation is provided in the
list.

2.3 My Apps

A touch pad is automatically performed when a TV app is executed at My Apps in Mini Home.

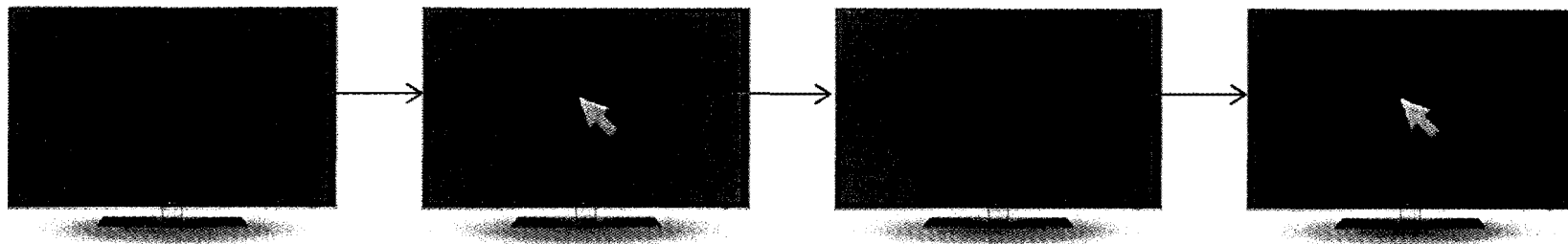


In case of one or more pages of TV apps, up and down gradation is provided in the list.

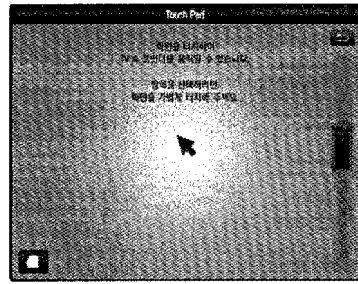
A touch pad is performed when a TV app in My Apps is executed.

3.1 Setting of Touch pad

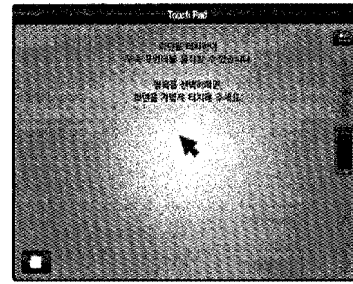
Pointer wake up / auto sleep



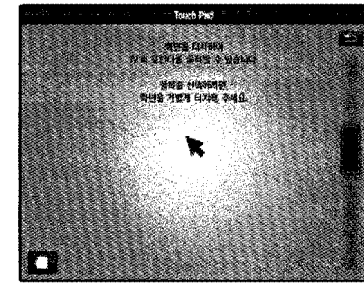
Call a touch pad



A cursor appears on a TV screen when the screen moves to a touch pad.



The cursor disappears if the screen is not touched for 2 seconds.

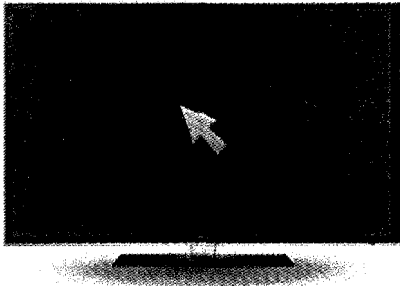


If the cursor disappears from the TV screen in a state in which the touch pad is open, the touch pad may be touched so that the cursor can appear again.

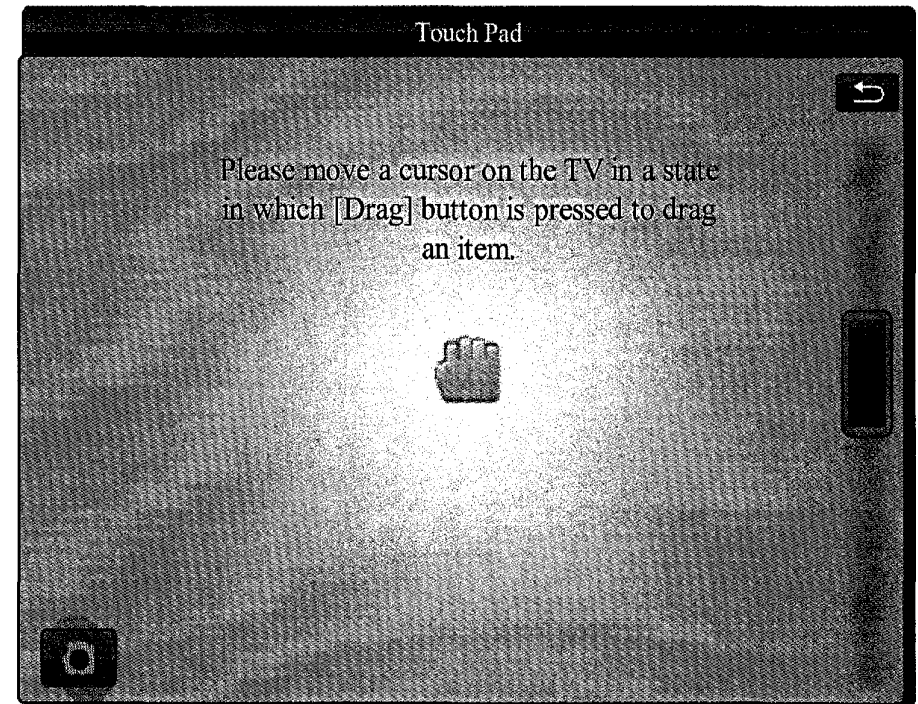
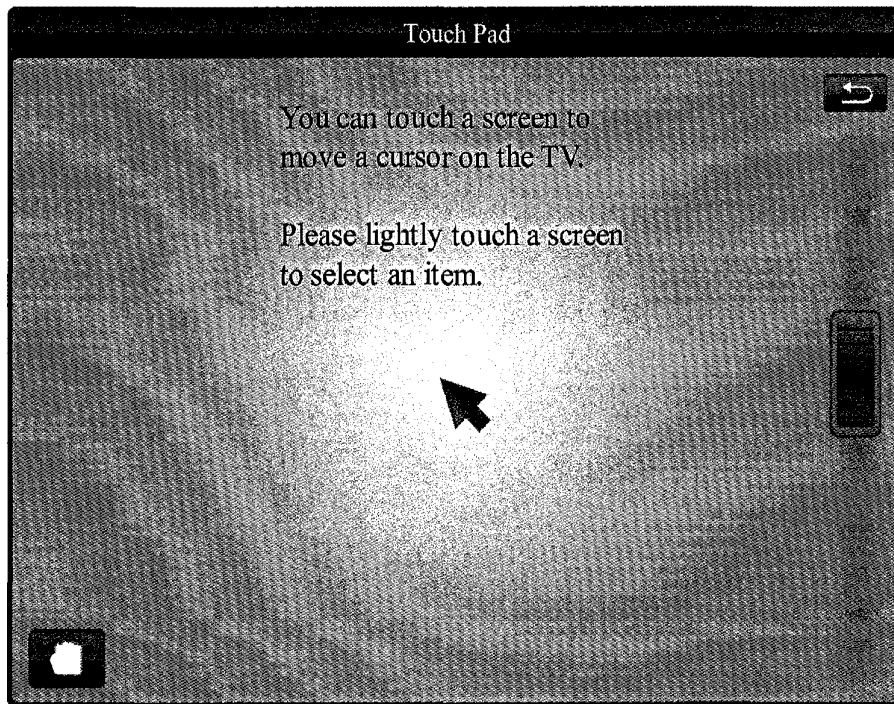
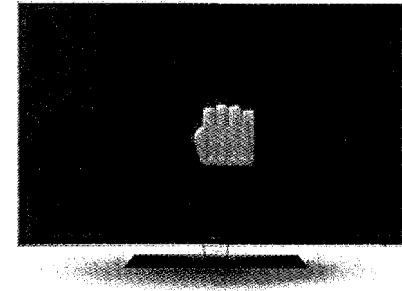
3.2 drag mode

Operated in a state in which [Drag] button is pressed

TV Screen



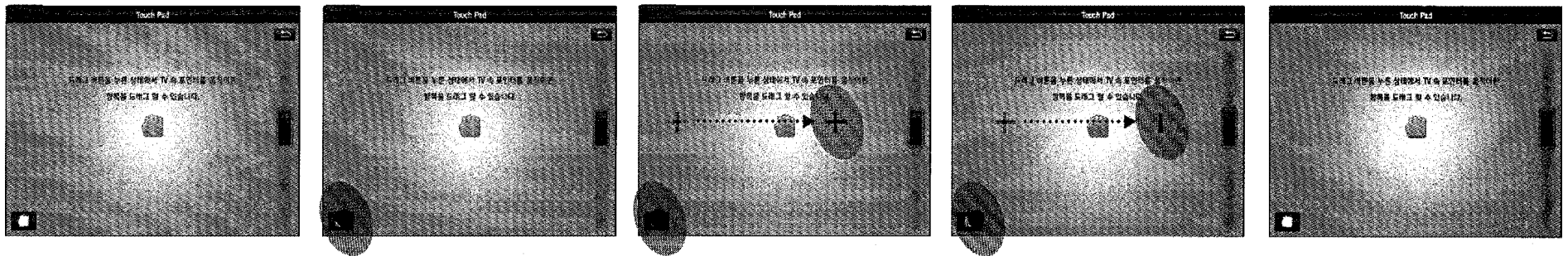
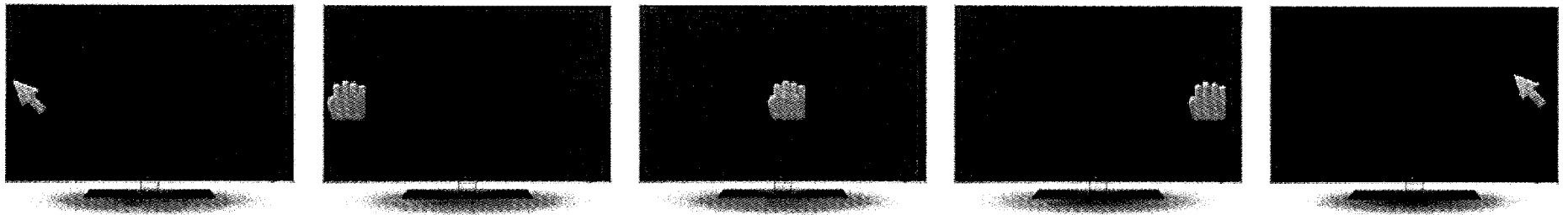
TV Screen



Switched to a drag mode while Drag icon is pressed in a region in which drag is possible

3.2 drag mode

Operated in a state in which [Drag] button is pressed



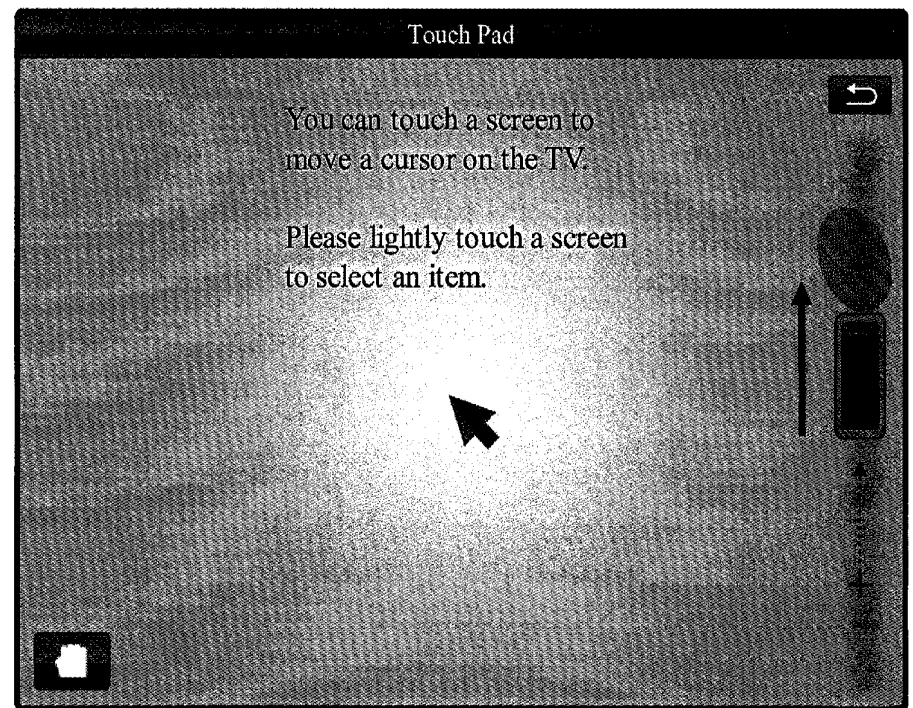
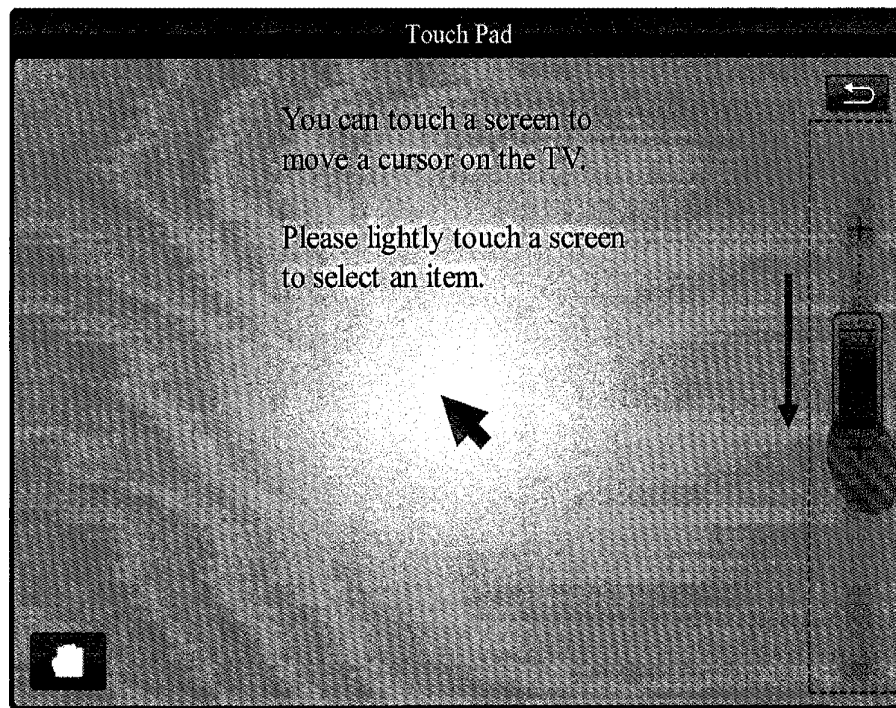
Drag icon mode

The drag mode is maintained while the drag icon is pressed.

Release the drag icon to return to a normal mode.

3.3 wheel mode

A wheel is operated when a wheel region at the right side of the touch pad is touched.

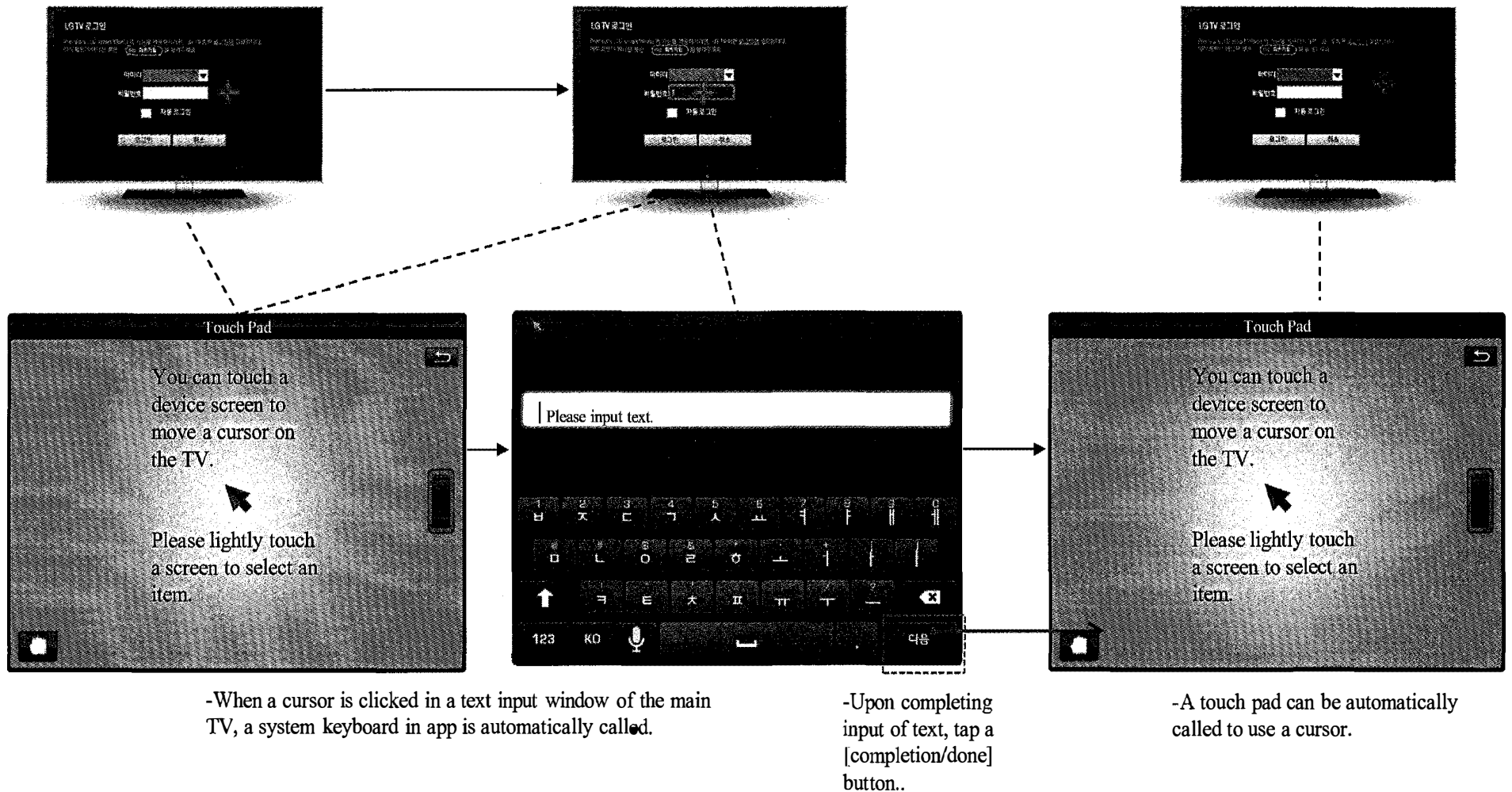


When the wheel region is touched, an effect is provided (The wheel portion is returned, and the wheel region is gradated).

3.4 Provision of Text input keyboard

A keyboard is automatically called when a touchpad-cursor is moved to select a text input field.

Case 1. Basic

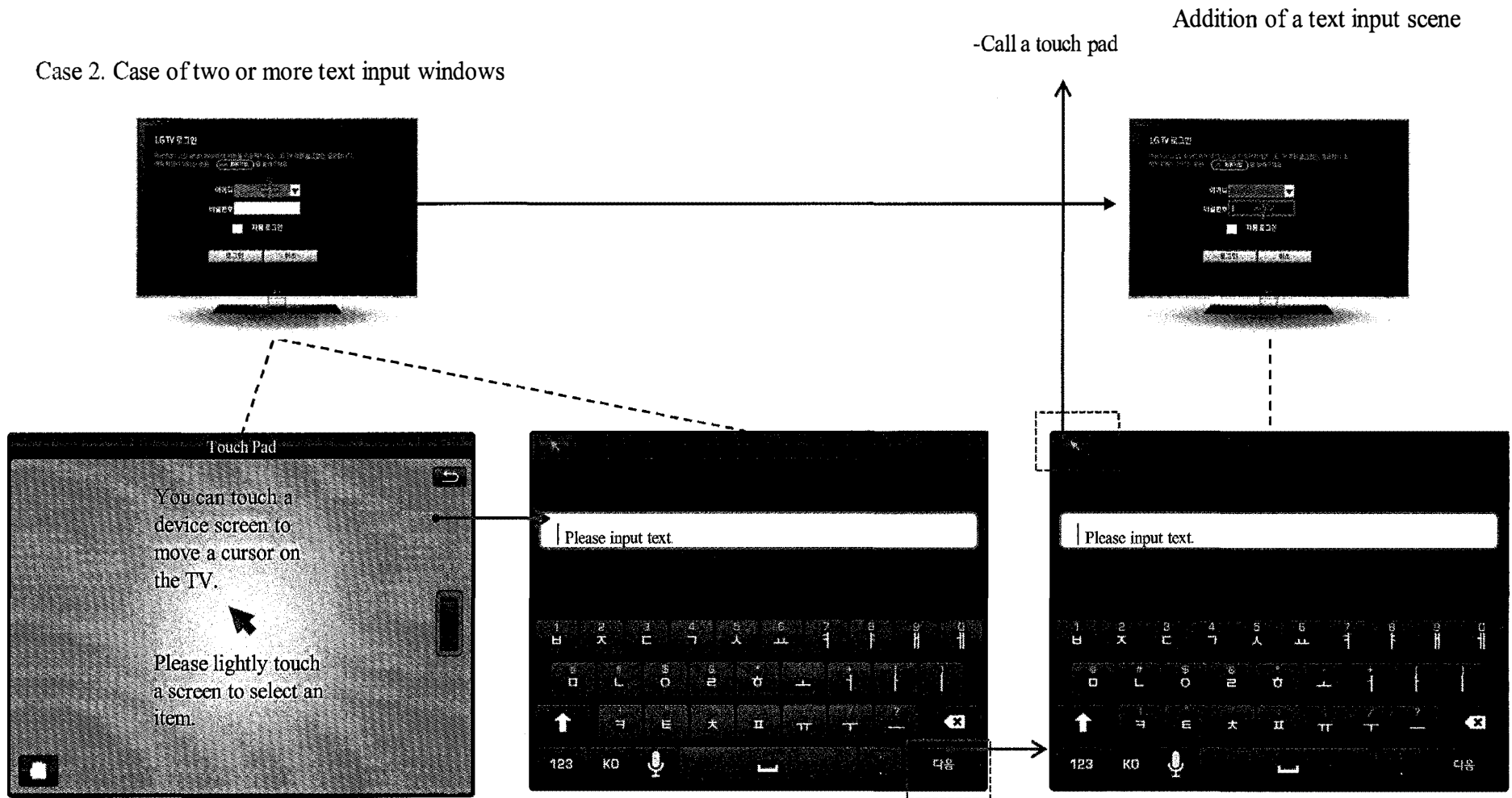


Addition of a text input scene

3.4 Provision of Text input keyboard

A keyboard is automatically called when a touchpad-cursor is moved to select a text input field. .

Case 2. Case of two or more text input windows



- When a cursor is clicked in a text input window of the main TV, a system keyboard in app is automatically called.

-When a [completion/done] button is tapped after input of text is completed, a focus is moved to the following text input window.

Terms used in this document are based on the following contents.

1. Changes legend:

Notation	Contents
DEL	Page deleted
ADD	Page added
Modify	Page Modify
TBD	To be discussion
Description	Text/Screen/Graphics modified

2. Basic Component legend:

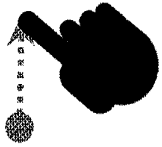
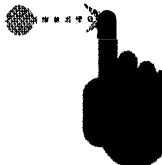
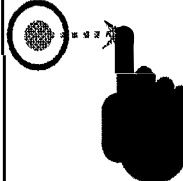
Notation	Contents
	Forward flow
	Automatic advance flow
	Reverse flow
 Description	Detailed description
[text]	Indication of reference documents Ex) [see 1.3 Live monitoring]

Notation	Contents
	Focus
	Tab, Switch button Selected
	Text Button
	Icon Button
	Icon Status
	Function toggle button

Terms used in this document are based on the following contents.

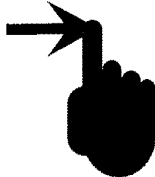
3. Touch interaction legend

Touch Down	Touch Down & Up	Touch Down & Hold	Touch Down & Hold & Up
			

Touch Down & Drag (Up → Down)	Touch Down & Drag (Down → Up)	Touch Down & Drag (Left → Right)	Touch Down & Drag (Right → Left)	Touch Down & Hold & Drag (Up → Down)	Touch Down & Hold & Drag (Down → Up)	Touch Down & Hold & Drag (Left → Right)	Touch Down & Hold & Drag (Right → Left)
							

Terms used in this document are based on the following contents.

4. Flicking interaction legend

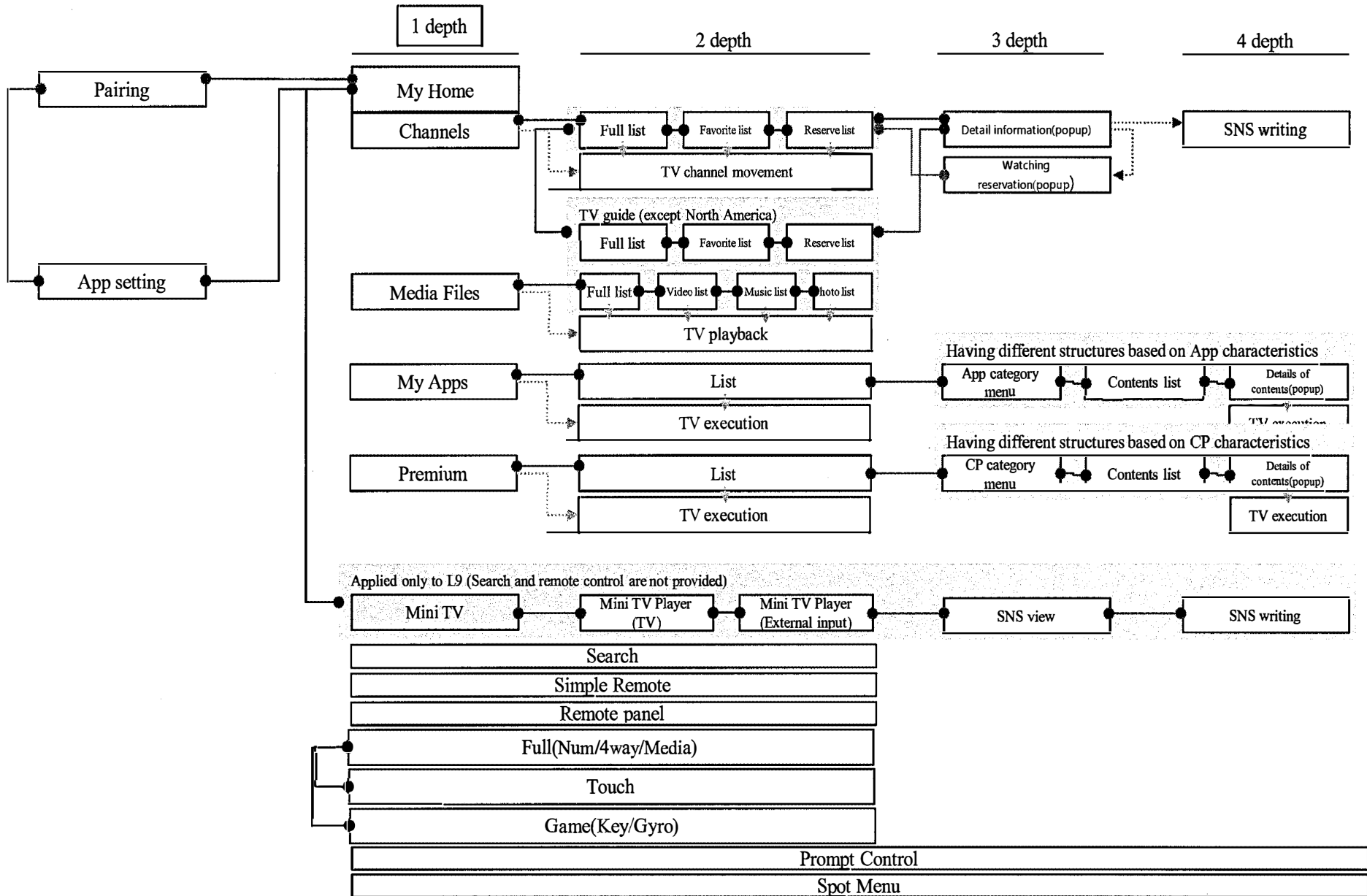
Flicking (Up → Down)	Flicking (Down → Up)	Flicking (Left → Right)	Flicking (Right → Left)
			

5. Transition Legend

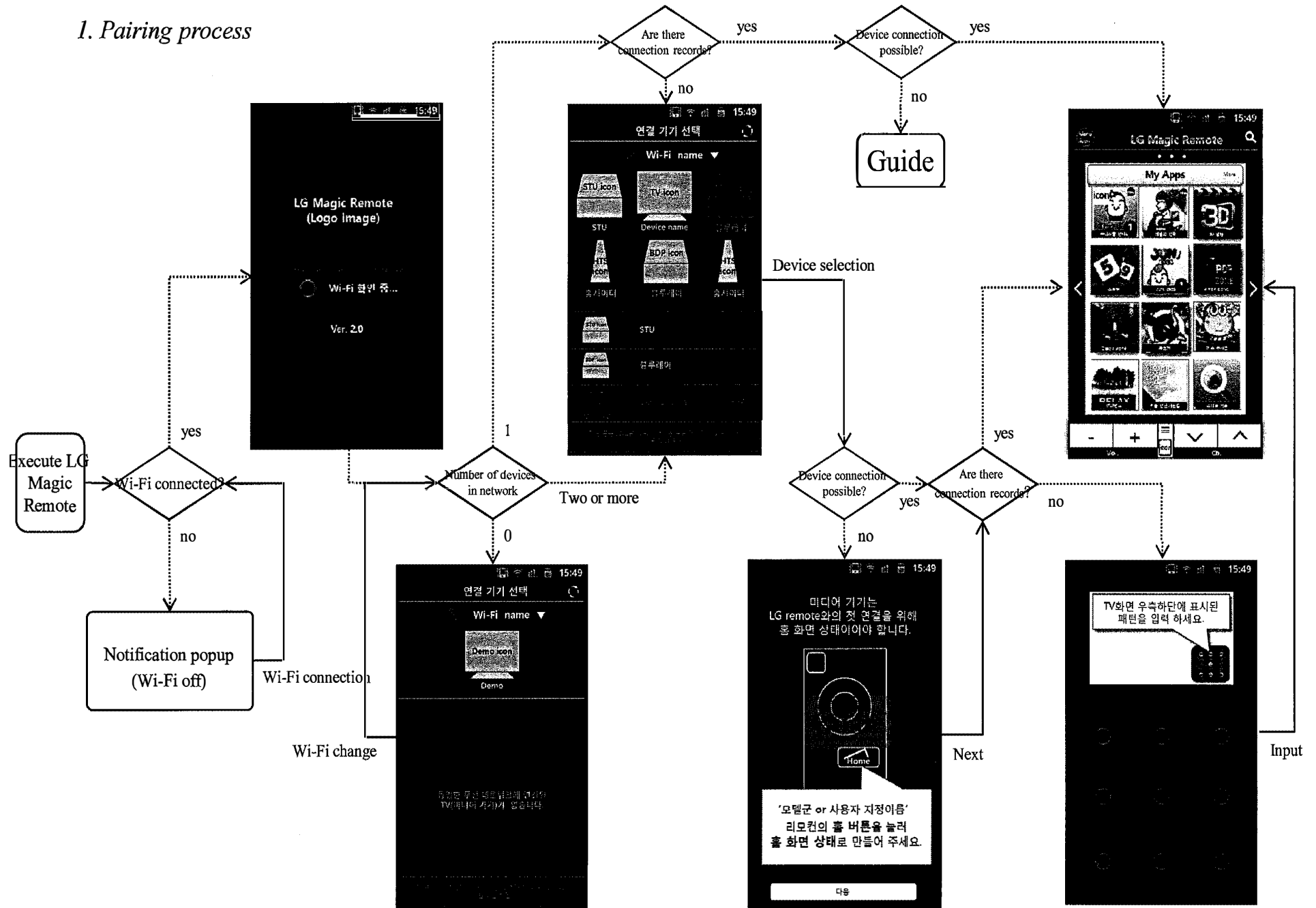
<i>Interaction Style</i>	Action picture	<i>Interaction Style</i>	Action picture
Move (Up → Down)		Move (Down → Up)	
Move (Left → Right)		Move (Right → Left)	

2.1. IA / Basic Interaction _ TV Pairing (Smart Phone)

.....> One-way movement ●——● Tap / mode switching
> TV execution function ●——● Next (tap) / Previous (back key) – Depth movement



1. Pairing process



2. Contents Common

Fixed provision of menu button and simple remote.



*The launcher is closed when a menu item is selected or a contents area is pressed.
Call a menu launcher.

Area	Description
1. Menu launcher button	Call a menu launcher - A contents screen is pushed and moved to the left side. - A selected menu icon is displayed.
1-1. Menu launcher	Call a menu launcher -Home, Channels, My Apps, Premium, Media Files, Mini TV, Setting - Menu icon + Menu title - A current page item is focused.
2. Search button	Search activated
3. Simple remote	A basic control key based on TV state is provided - A middle button (remote icon) is pressed / a simple remote region is flicked: a remote panel is called - A volume decrease button is long pressed: Mute - A volume key is pressed in a mute state: Unmute (return to a volume state before mute) * Continuous increase or decrease of volume is not possible through long press of the volume key.

<Broadcast watching state>



<Media watching state_Play>



<Media watching state_Pause>



<Media watching state_Stop>

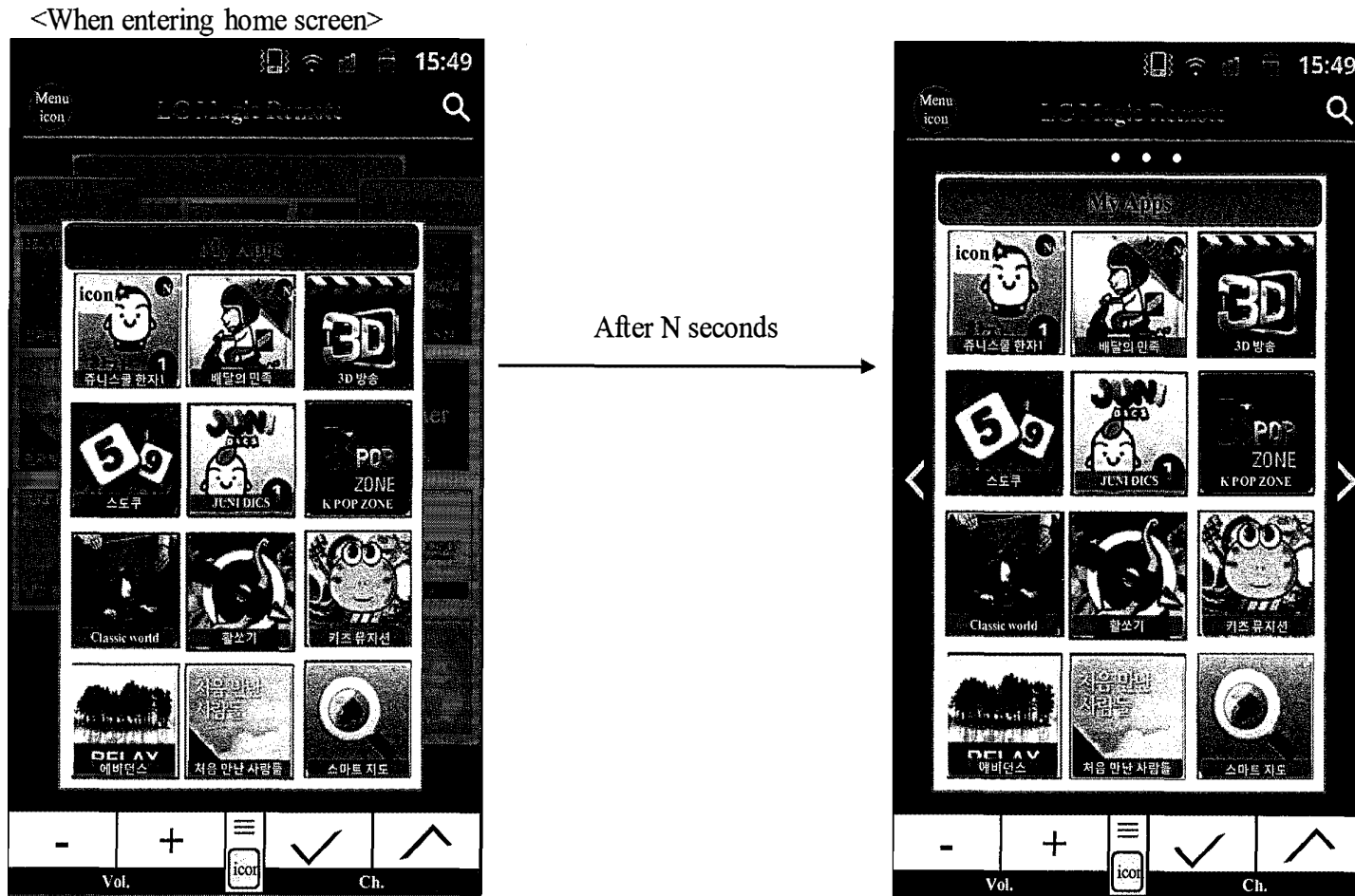


<State of home dashboard / app not exhibiting media characteristics>



2.2-1. Contents > Home > Entry

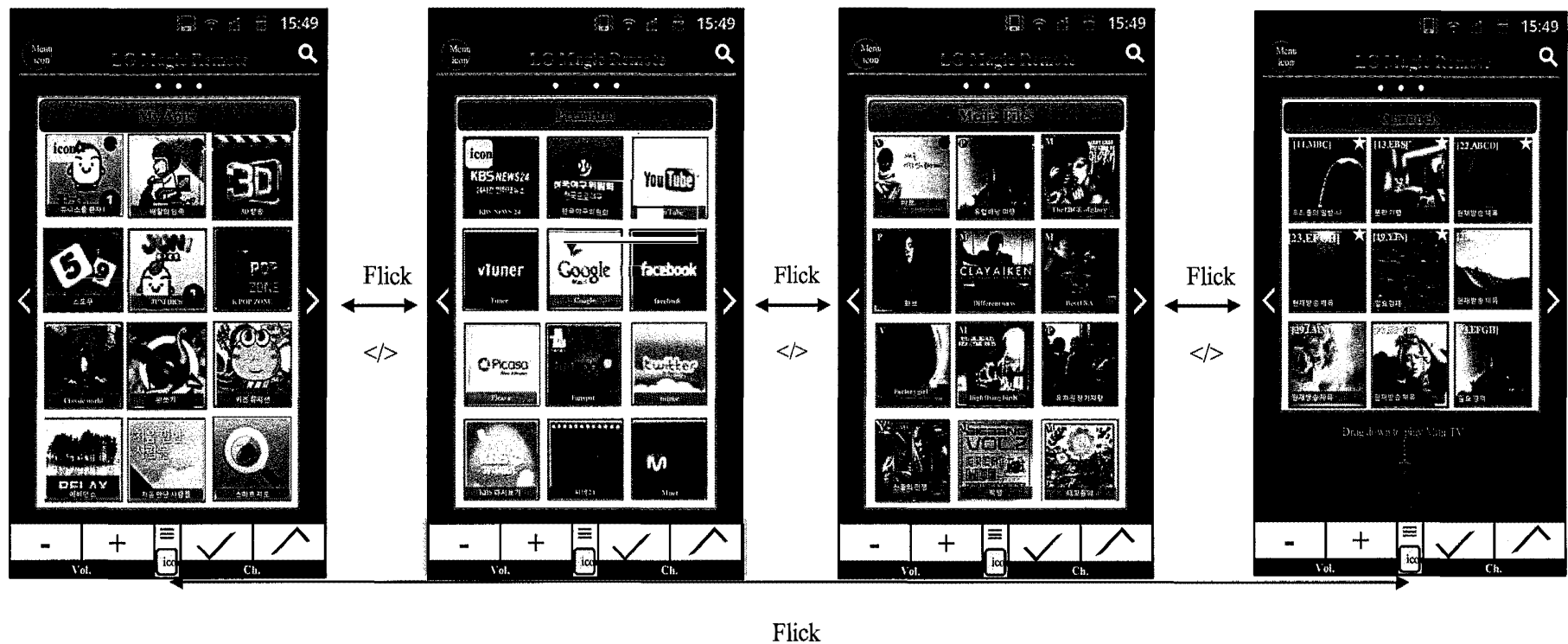
| When entering a home screen, a full menu is displayed. After N seconds, the menu is zoomed in, and My Apps is focused.



2.2-2. Contents > Home > Layout

The home structure is divided into four sections, such as Channels, My Apps, Media Files, and Premium.

- In the Channels section, a Mini TV playback icon is displayed (* A Mini TV function is provided only for L9).

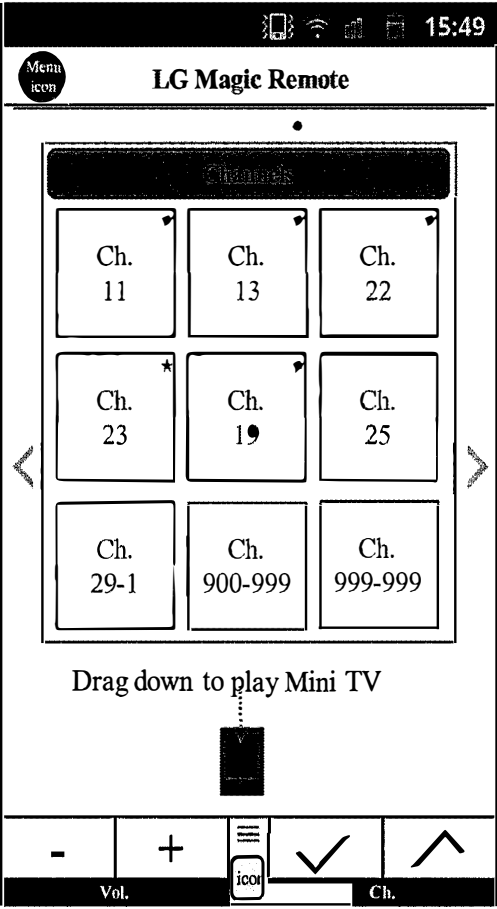


2.2-6. Contents > Home > Channels section

| Display channel items



<Minimal info >



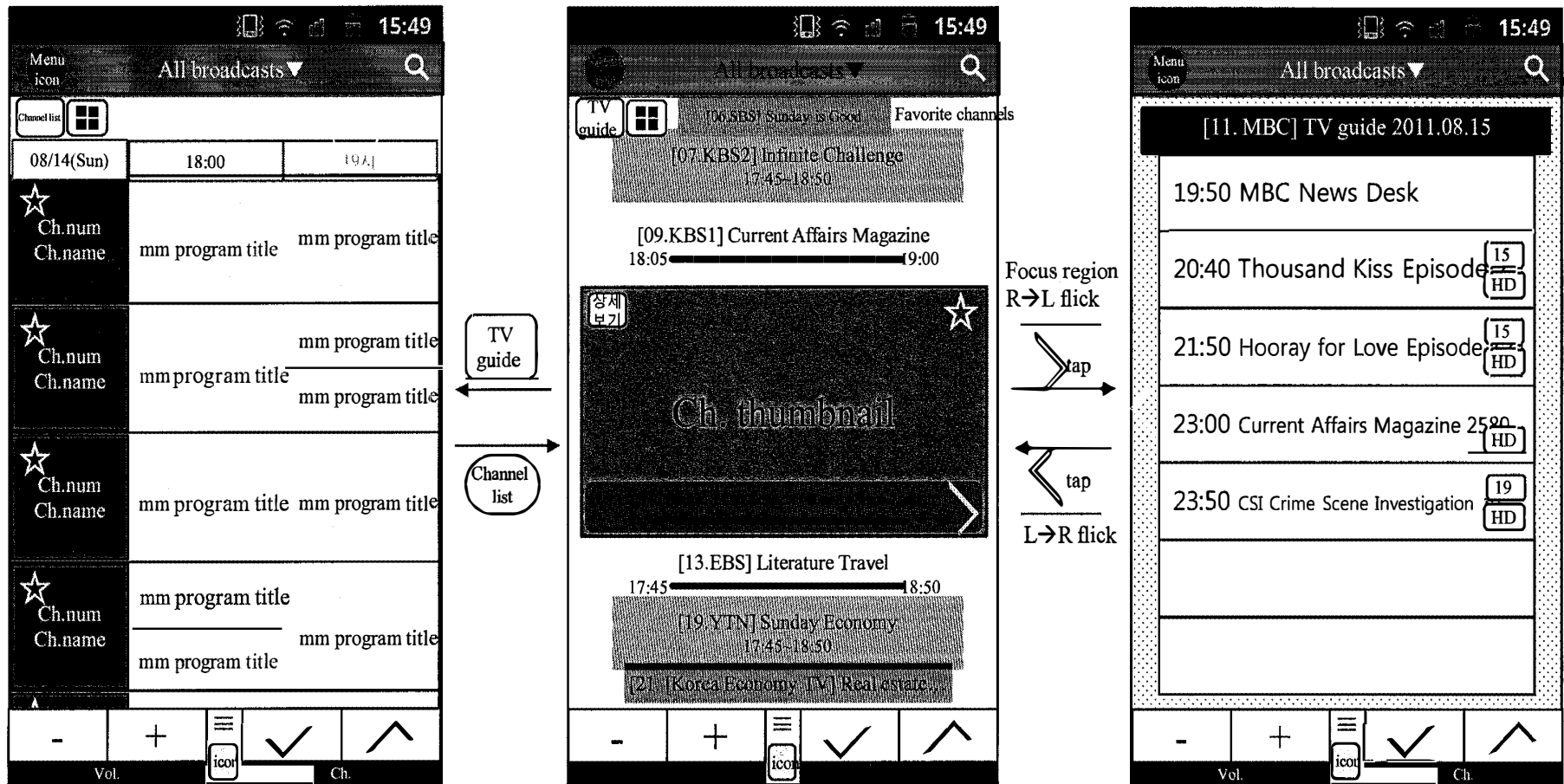
Area	Description
1. Menu title/button	Display menu titles - Upon selection, move to a channel list screen * see 2.2
2. TV Ch. Button	Display 9 favorite channels - Channel numbers + channel titles + favorite channel icons + program titles - Upon selection, move TV channels - Sorting: Display channels in order of favorite channels > Recent watched channels > Channel numbers
3. Mini TV Button(area)	- Tap: Play back the current TV video on Mini TV - Drag and Drop channels items: Play back a corresponding channel on Mini TV

-If extraction of a thumbnail / broadcast title image of a channel is not possible

2.3. Contents > TV List (2depth) interaction(1)

Flick a middle focus region of the channel list to the left or press an arrow button at the right side of a program title to confirm information of a program next to the focused channel.

TV guide is confirmed by pressing a left upper end button or selecting 'TV guide' in an option menu.



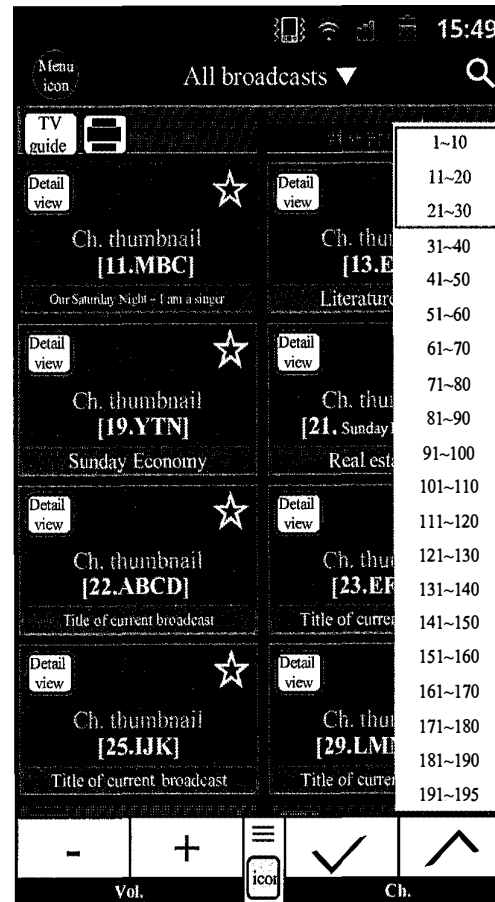
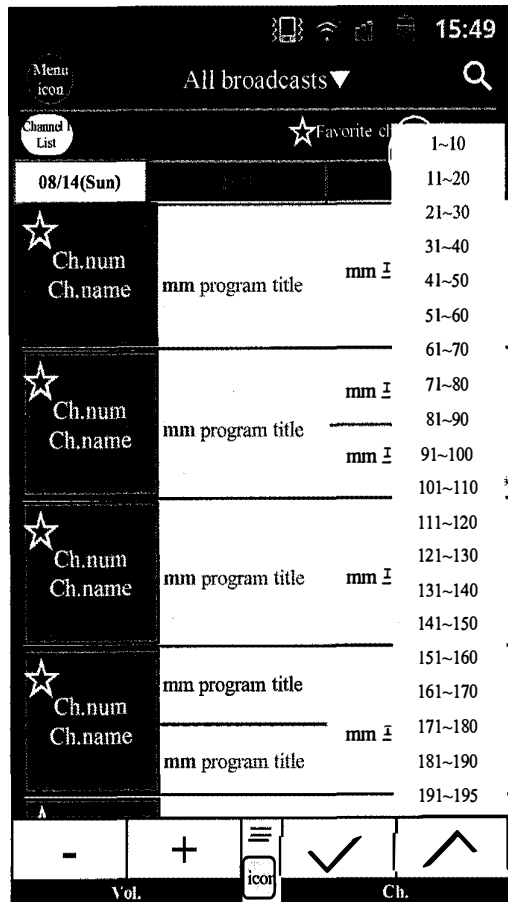
2.3. Contents > TV List (2depth) interaction(2)

When continuous vertical flick is performed (flick is accelerated before scrolling is stopped) on the screen of the channel list (2.2-1) and the all TV guide (2.2-2), an indexing scroll bar is exposed.

Scrolling is stopped, and the indexing scroll bar disappears after 1 second.

Indexing is provided in 10, 50, and 100 units based on the number of total channels. A range displayed on the screen is focused.

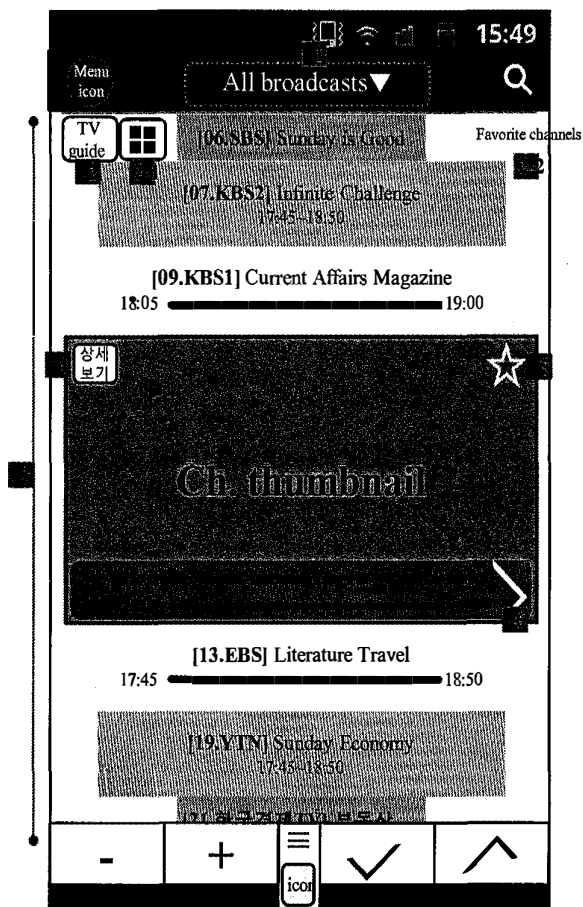
Rapidly scroll move to a pressed index position.



The size and position of an index focus are changed depending upon the number and range of channels displayed on the screen.

2.3-1. Contents > TV List (2depth) > Channel list

Screen displayed by selecting a TV channel menu
Vertical scroll: Channel search



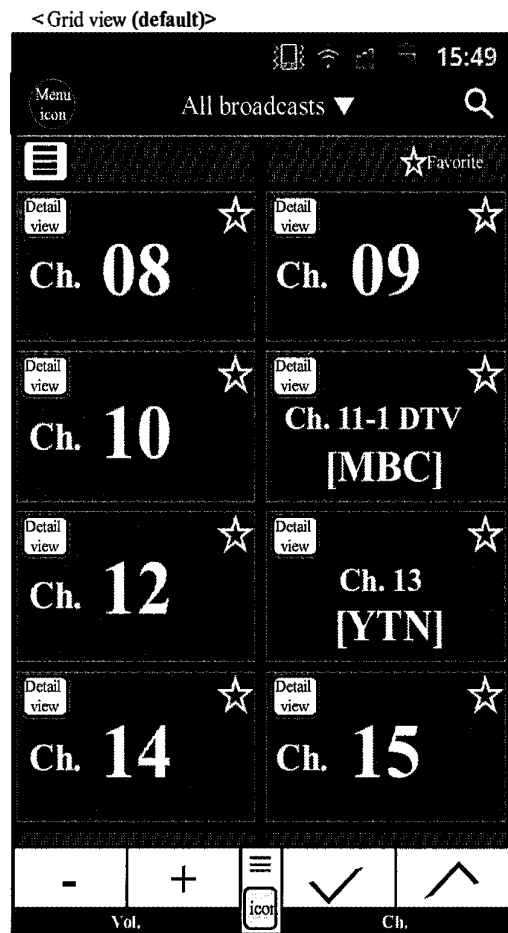
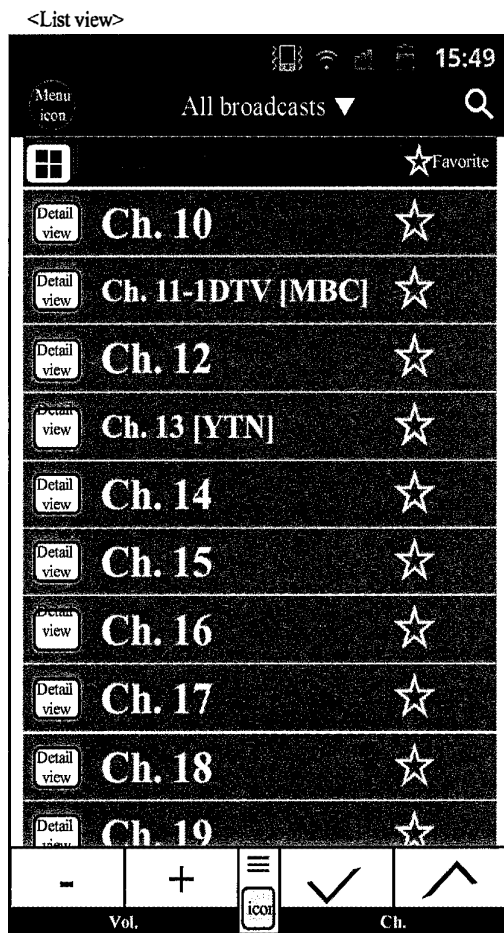
< Grid view (default) >



Area	Description
1. Category select button	Display a category selection popup All broadcasts Terrestrial Cable ...(Applicable divided items)
2. TV guide button (toggle)	Move to a program table screen
2-1. View mode button (toggle)	Change a list view method - List type / Grid type (default)
2-2. Filtering button (toggle)	Favorite channel list / Full channel list - Default: All channels (button off)
3. Ch. List	Display five channels in a screen - Middle item tap: Change a TV channel - Periphery item tap: Move to the middle - Vertical drag / flick: Channel scroll - Horizontal drag / flick: Time scroll (previous / next programs) - Middle focus items: channel thumbnail / broadcast title image (updated every 4 seconds for a watched channel), channel number, channel title, program title, broadcast time, and running time (bar) indication + Detail view button, Favorite button, and Reserve button - Previous / next items: channel number, channel title, program title, broadcast time, and running time (bar) indication - End items: channel number, channel title, and program title
4. Detail info button	Call a detail view popup * see 2.2-4
5. Staring button (toggle)	Register / unregister favorite channels * Not synchronized with TV
6. next button	View a Channel broadcast guide (see 2.2-2) * Not displayed if there is no program information It is possible to flick a focused region for movement.

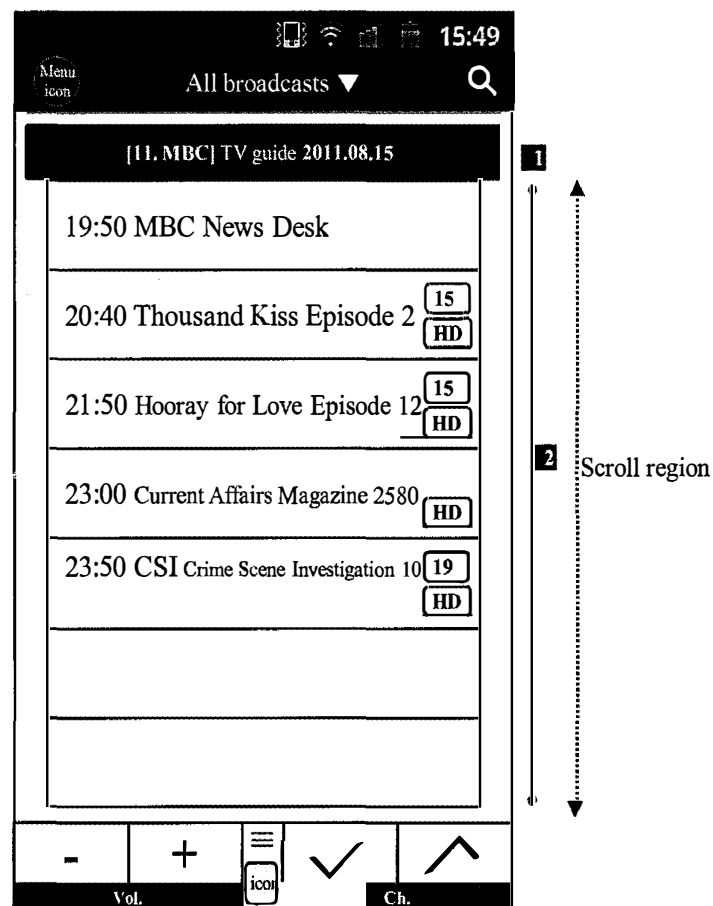
2.3-1. Contents > TV List (2depth) > Channel list (extraction of mini-thumbnail / channel information is not possible)

Screen if there is no program information



2.3-2. Contents > TV List (2depth) > Channel broadcast guide

Appearing when pressing the next button (>) or flicking from the right side to the left side on the channel list screen
 Flick from the left side to the right side or press the previous button (<) on the current screen to move to the previous screen.
 * According to EPG cooperation policy, the channel broadcast guide is not provided without DB linking.

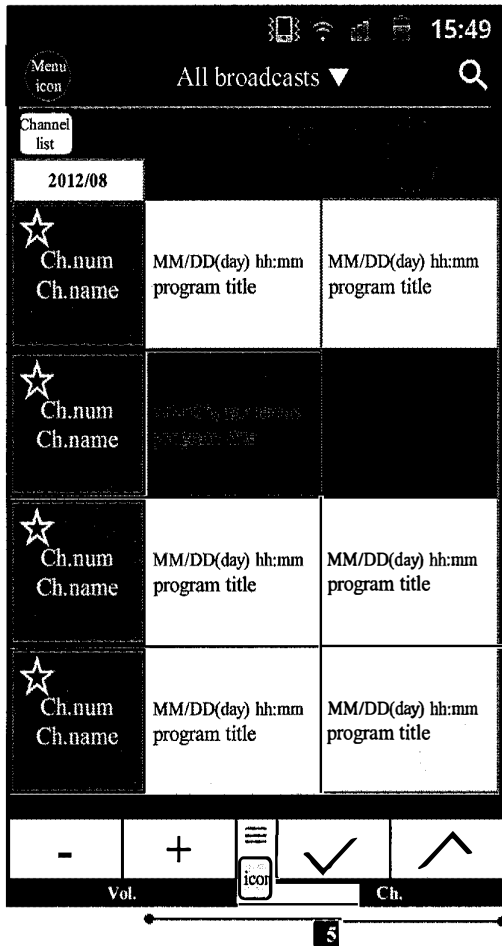
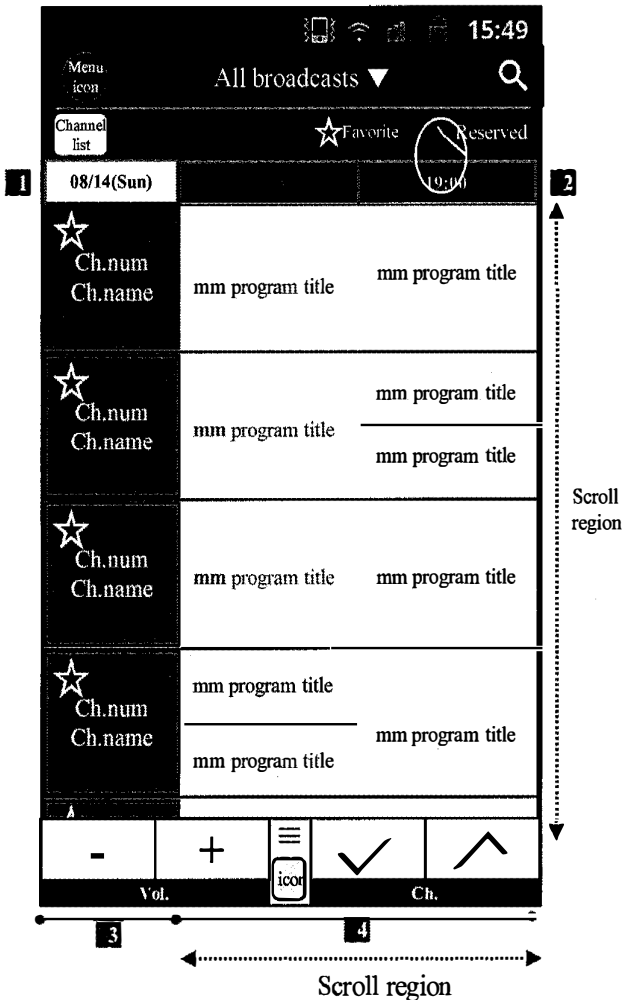


Area	Description
1. Title	Information of a channel focused in channel information + 'TV guide' + Date of this day
2. Next guide	Display the following program information - Create a list in program units - hh:mm Program title + Age limit icon (no icon for G-rated programs) + Broadcast kind icon (no icon for general broadcasts)

2.3-3. Contents > TV List (2depth) > TV guide

Appearing when pressing a TV guide button on the channel list or selecting Option menu > TV guide

- According to EPG cooperation policy, the channel broadcast guide is not
- provided without DB linking.



Area	Description
1. Date button	Display date on scroll position - mm/dd(day) - yyyy/mm when filtering a reserve list - Tap: Call a date selection popup (see 7.3)
2. Timeline	Time division display (one hour unit) * No time division when filtering a reserve list
3. Ch. List	- Display channel number and channel title - Scroll is positioned so that the currently watched channel is located in the first place at the time of screen entry - Tap: Change a TV channel (see 2.2-4) - Provision of favorite channel toggle button
4. Program list (all)	Display a program for each time zone of each channel - Tap: Call a detail view popup (see 2.2-3) - Display minutes (mm) and a program name on a line * Display text ellipsis (...) when text overflow occurs. - When there are two or more programs in one time zone, the programs are provided in a vertically divided state. 00 SBS News Parade 30 Weather and Life 00 Live Program Today * When there are four or more programs in one time zone, channel height is increased - GUIs of the current broadcasting program items are divided using text colors
5. Program list (Reserved)	When a reserve tab is selected, time unit division disappears, and programs are divided and displayed in program units for each channel. - Recorded items are marked by different colors. - Tap: Call a detail view popup (see 2.2-3) - Display date (MM/DD(day)), time (hh:mm), and program title (maximum 3 lines) * Display text ellipsis (...) when text overflow occurs. 08/18(Thur) 00:05 Special: Previewed IAAF World Championships Daegu 2001

2.3-4. Contents > TV List (2depth) > Detail information popup (Provision of max-Full EPG information)

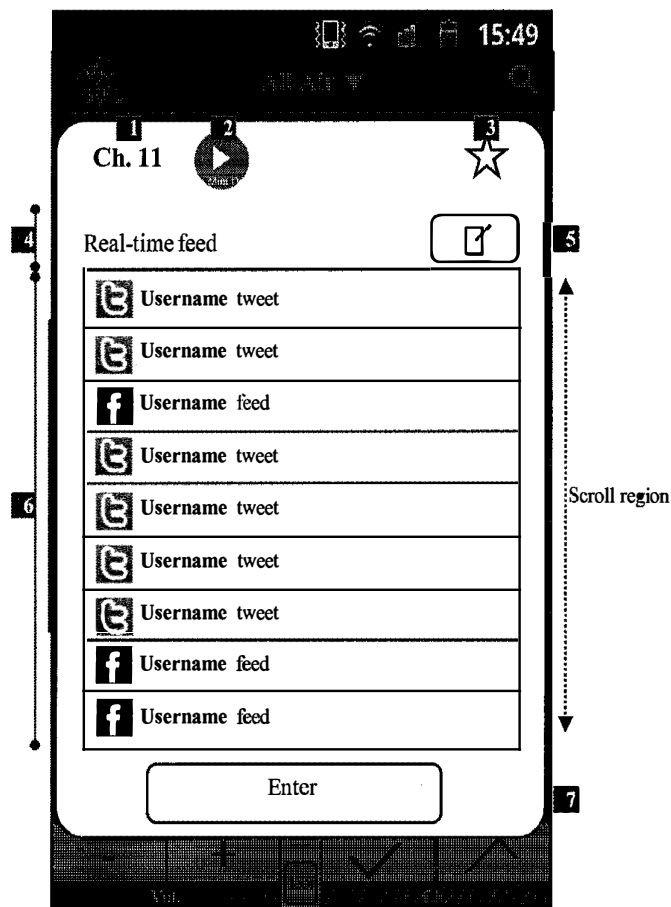
A screen displayed when pressing a channel detail view button



Area	Description
1. Ch. title	Display selected channel number and channel title
2. Staring button (toggle)	Register / unregister favorite channels
3. Reserve button	Call a selected program reserve popup (see 2.2-5) * displayed only for programs to be broadcast
4. Program title	1. Previous / next program selection button: move to a program previous / next to the current channel 2. Display program title (including episode number) and running time (YYYY/MM/DD(day) hh:mm ~ hh:mm)
5. Program title Image	- Items during watching: current broadcast screen thumbnail (updated every four seconds) + Progress status bar - Items to be broadcast: Program title image
6. Detail info.	Display production staff / performance staff, program introduction, and detailed synopsis of the current episode
7. SNS upload button	Move to a text screen (see 3.5) * If there is no registered account, connection is performed through Tweeter login.
8. Search SNS list	Display a related (extracted by program tag / program title if there is no program tag, channel number, channel title, and performer name) up-to-date text list - SNS icon (Tweeter and Facebook) + User name + Contents - Displayed in one line for each item (Display of text ellipsis (...) when text overflow occurs) - Detail view popup when selecting text item (see 3.4-1)
9. OK button	Close a popup
10. Mini TV Play button	Execute Mini TV (see 3.1) * Displayed during watching on TV
11. Play button	Execute items on TV * Displayed for recorded items (stored file is maintained)

2.3-4. Contents > TV List (2depth) > Detail information popup (extraction of mini-thumbnail / channel information is not possible)

| Configured as follows if program information is not provided



Area	Description
1. Ch. title	Display selected channel number
2. Mini TV Play button	Execute Mini TV (see 3.1 to 3.4) * Displayed during watching on TV
3. Staring button (toggle)	Register / unregister favorite channels
4. SNS select tab	Select Tweeter / Facebook
5. SNS upload button	Move to a text screen (see 3.5)
6. Search SNS list	Display a related up-to-date text list - Displayed in one line for each item (Display of text ellipsis (...)) when text overflow occurs) - Detail view popup when selecting text item (see 3.4-1)
7. OK button	Close a popup

3. Mini TV Player common(1)

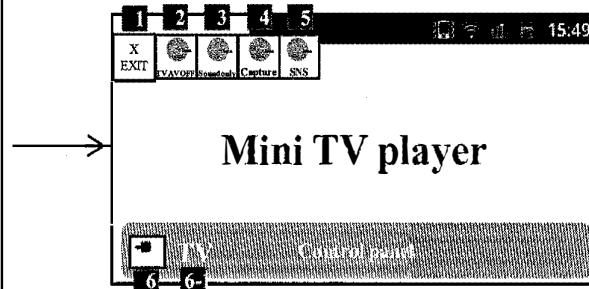
Supportable AV combination

Main TV								
Mini TV		DTV	ATV	AV/Scart	Comp	HDMI	PC	USB, PIP, 3D, VCS, VOD, WEB, PVR
	DTV	Mirroring	NO1)	YES	YES	YES	YES	NO
	ATV	NO1)	Mirroring	NO2)	YES	YES	YES	NO
	AV/Scart	YES	NO2)	Mirroring	NO3)	NO4)	NO3)	NO
	Comp	YES	YES	NO3)	Mirroring	NO4)	NO3)	NO
	HDMI5)	YES	YES	NO4)	NO4)	Mirroring	NO4)	NO

- Support of DTV Audio Description is not possible during playback of Mini TV.
- NO1) 1 Tuner is provided, and therefore, simultaneous support of ATV / DTV is not possible.
- NO2) ATV / Composite has one Analog Video Decoder (CVBS), and therefore, simultaneous support is not possible.
- NO3) A pair of Audio ADCs is provided, and therefore, Analog 2 input support is not possible.
- NO4) Analog audio is required when DVI is connected via an HDMI input. A pair of Audio ADCs is provided, and therefore, Analog 2 input support is not possible.
- HDMI5) Encryption with HDCP 2.0 is required. In MC, HDCP 2.0 key is ready in correspondence to HDCP 2.0 key after 3Q of 2012, correspondence to NSU is expected thereafter.

3. Mini TV Player common(2)

Select Option menu > Mini TV or press Mini TV button on home screen to execute Mini TV



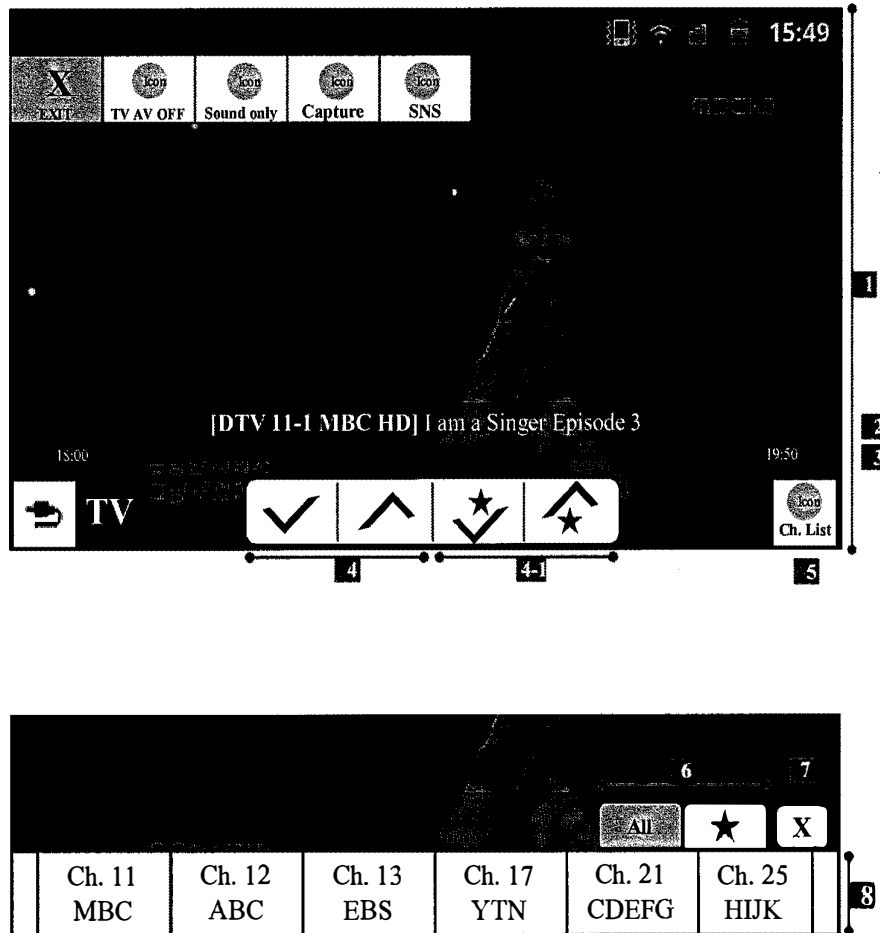
*Upper end button / control panel automatically disappears after 1 second (Button / panel displayed by tapping screen thereafter does not automatically disappear)

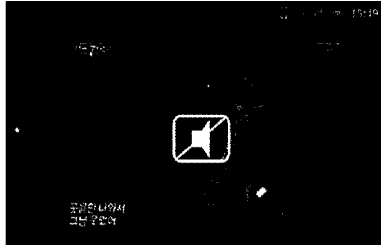
Icon Mini TV	Icon TV account login
Icon Search	Icon Environment setting

Area	Description
1. EXIT button	Finish Mini TV and return to My home screen
2. TV AV ON/OFF	Turn off TV LCD and mute TV volume * Turn on TV LCD and unmute TV volume
3. Sound only button (toggle)	Sound On / Off function - Sound only On: sound of contents being watched on Mini TV is maintained at the time of EXIT * Control by OS multitasking management is possible - Sound only OFF: Mini TV is finished at the time of EXIT
4. Capture button	Capture current video screen (stored in Android photo album)
5. SNS button	Display an SNS panel * see 3.5
6. Input selection button	Call an external input selection popup to be watched on TV or Mini TV - When external input is changed after selection of Mini TV tab, change from phone to the corresponding input screen is achieved. - When external input is changed after selection of Mini TV tab, change from TV to the corresponding input screen is achieved. - Currently selected external input item is selected and displayed. When another item is selected, popup is finished. * Supported but un-switchable input items are dimmed
6-1. Input info.	Display input kinds selected by current phone

3.1. Mini TV Player > TV(Air)

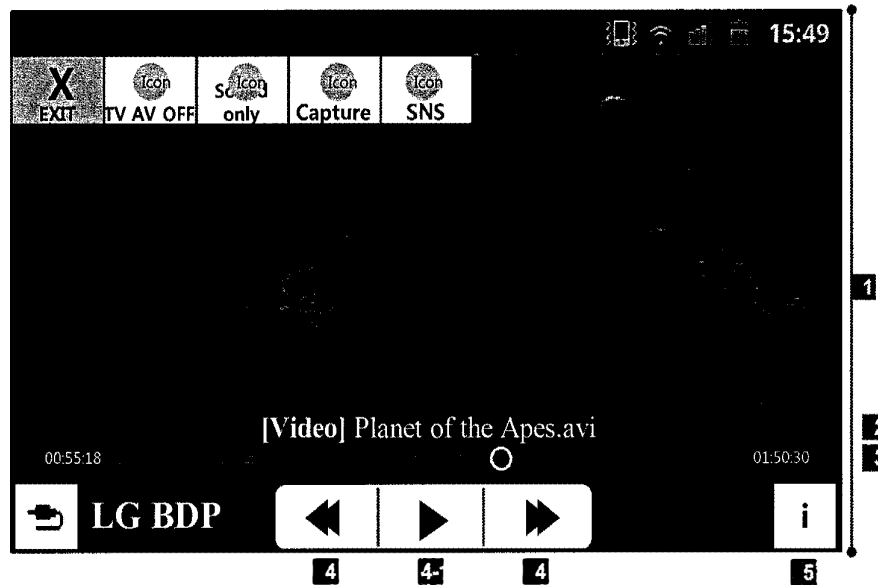
Basic screen appearing when 'Mini TV' is played back in a broadcast watching state
 Screen appearing when Input > TV is selected in a Mini TV state
 Mini TV is fixed in a landscape mode.



Area	Description
1. Screen	Display a broadcast screen <interaction> 1. Tap: Reveal / hide panel 2. Double tap: change aspect ratio - Storage aspect ratio (default) / Full screen 3. Flick down / right: Previous channel 4. Flick up / left: Next channel 5. Multi tap: Mute / unmute device volume  * Device volume is controlled by hard key 4. Pinch close: Apply the current input of TV to Mini TV 5. Pinch open: Apply the current input of device to TV
2. Title	1. Live TV: A case in which there are channel title and broadcast title * Marquee program title if region overflow occurs.  2. Live TV: A case in which there is channel title but not broadcast title   3. Live TV: A case in which there is neither channel title nor broadcast title
3. Time Status control	Start / end time of the current program (hh:mm), Indication of progress status bar
4. Ch. Control button	Move to channel
4-1. Favorite Ch. Control button	Move to favorite channel
5. Ch. List button	Call a channel list
6. Ch. tab	All channels / Favorite channels (default)
7. Ch. List close button	Close a channel list
8. Ch. list	- Display the current channel as the first item - When selected channel is changed

3.2. Mini TV Player > External input (LG BDP)

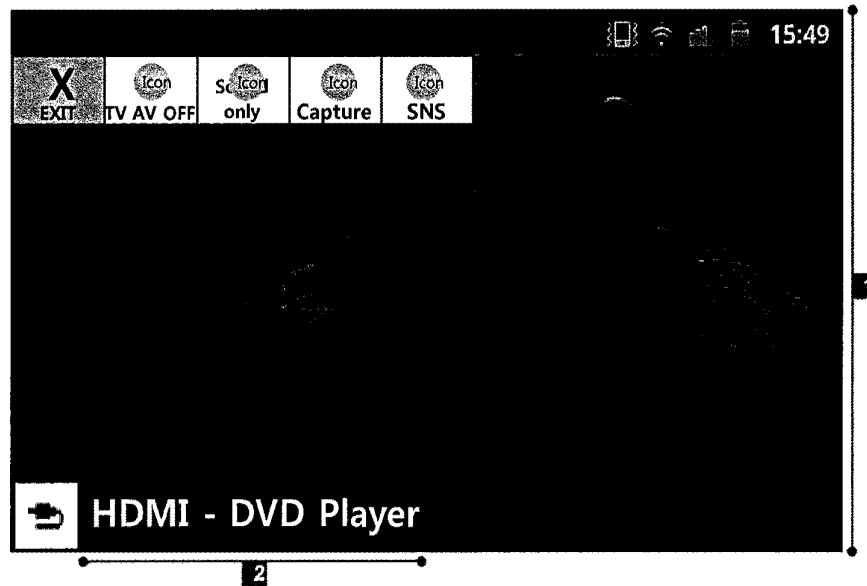
Basic screen appearing when 'Mini TV' is played back in an LG BDP watching state
 Screen appearing when Input > LG BDP of the external input items is selected in a Mini TV state
 Mini TV is fixed in a landscape mode.



Area	Description
1. Screen	Display a broadcast screen <interaction> 1. Tap: Reveal / hide panel 2. Double tap: change aspect ratio - Storage aspect ratio (default) / Full screen 3. Multi tap: Mute / unmute device volume * Device volume is controlled by hard key 4. Pinch close: Apply the current input of TV to Mini TV 5. Pinch open: Apply the current input of device to TV
2. Title	Display media kind and media file name * Marquee if region overflow occurs.
3. Time Status control	Current / full time of the current video (hh:mm:ss), Indication of progress status bar -handler drag : Time shift
4. RW /FF button	Rewind / Fast forward button <interaction> 1. Tap: Skip (15 second unit) 2. Press & hold: Fast forward (1 minute per second)
4-1. Play/Pause button (toggle)	Play / Pause <Pause state> <Play state>  
5. Info button	Call a disc information popup See 8.2.3

3.3. Mini TV Player > External input (Others)

Basic screen appearing when 'Mini TV' is played back in an external input watching state
 Screen appearing when Input > external input item is selected in a Mini TV state
 Mini TV is fixed in a landscape mode.

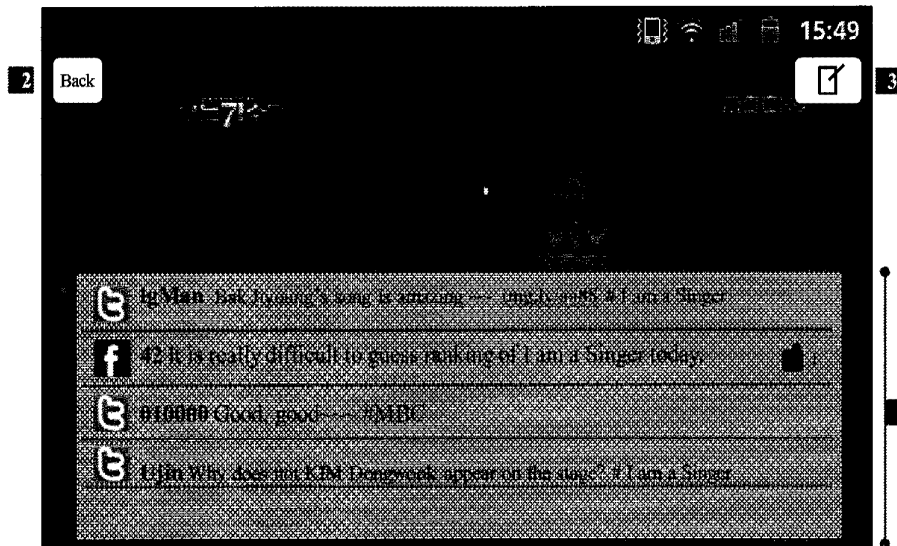


Area	Description
1. Screen	Display a broadcast screen <interaction> 1. Tap: Reveal / hide panel 2. Double tap: change aspect ratio - Storage aspect ratio (default) / Full screen 3. Multi tap: Mute / unmute device volume * Device volume is controlled by hard key 4. Pinch close: Apply the current input of TV to Mini TV 5. Pinch open: Apply the current input of device to TV
2. Input info.	-HDMI, Component, Composite: A case in which there is a device name HDMI 1 - DVD Player -HDMI, Component, Composite: A case in which there is no device name Component 1

3.4. Mini TV Player > SNS

Screen appearing when SNS button is pressed during playback of TV / Video contents

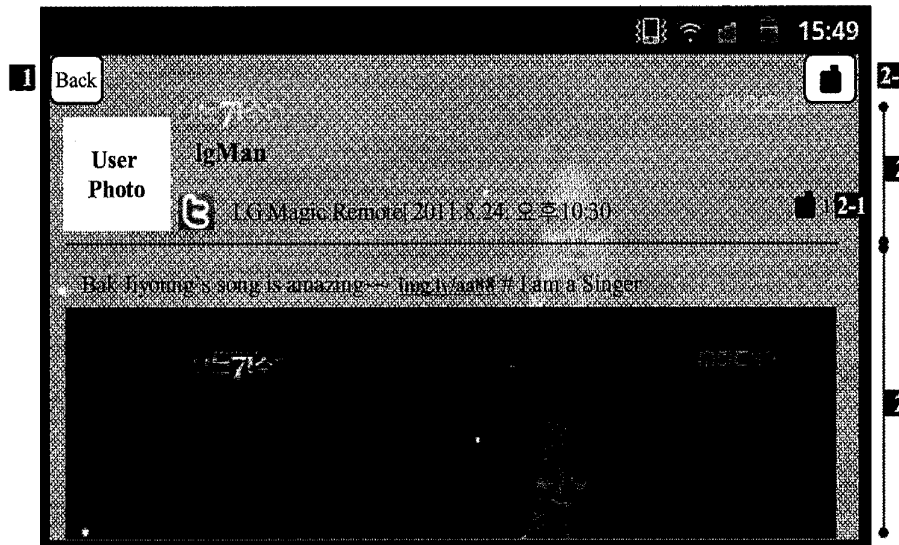
Displaying real-time SNS contents (broadcast title / file names, Meta tag, etc.) related to watched contents



Area	Description
1. Search SNS list	Display a related up-to-date text list - SNS icon (Tweeter, Facebook) + User name + Contents + (Displaying the number of times of expressing “Like it” for Facebook) - Displayed in one line for each item (Display of text ellipsis (...) when text overflow occurs) - Detail view popup when selecting text item (see 3.4-1)
2. Back button	Move to the previous screen after completion of SNS
3. SNS upload button	Move to a text screen (see 3.5) * If there is no registered account, connection is performed through Tweeter login (see task scenario 7.2)

3.4-1. Mini TV Player > SNS > Details of contents

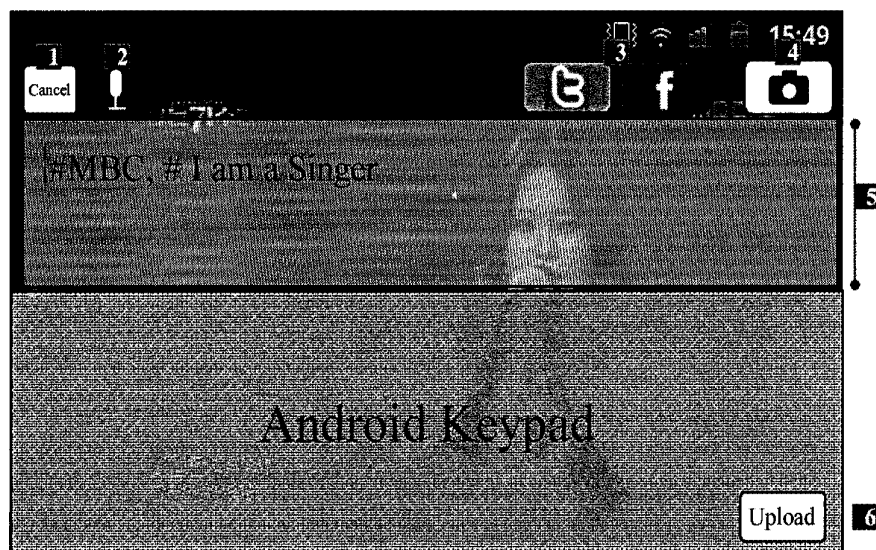
Screen appearing when an SNS line item is pressed



Area	Description
1. Close button	Close a detail window and display on SNS panel
2. Update info.	Display registration information - User photo + User name + SNS kind icon + Upload app + Upload data and time
2-1. like it info.	Display popularity * Displayed only for Facebook
2-2. like it button	Input 'Like it' * Displayed only for Facebook
3. Contents	Display text contents and photo - Photo size is original size - If original size is greater than the region, perform width adjustment in the text region

3.5. Mini TV Player > SNS Writing

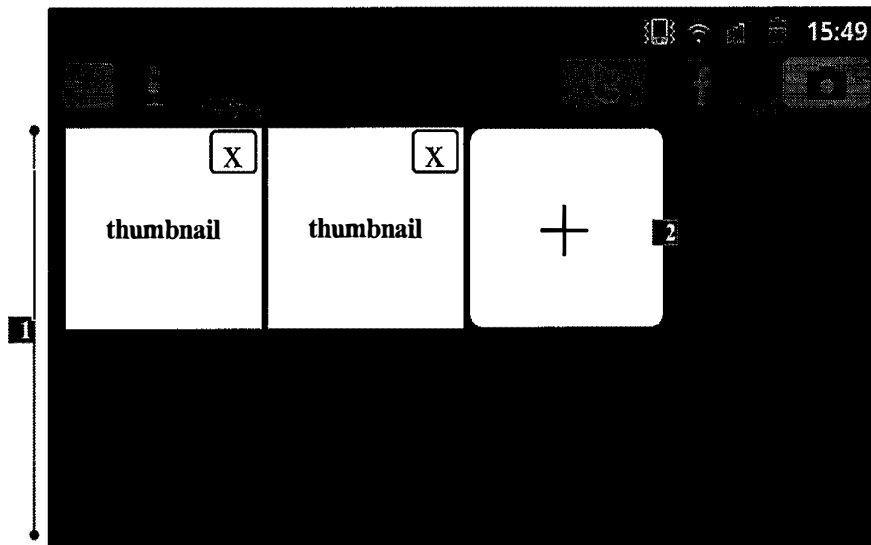
Screen appearing when a writing button is pressed



Area	Description
1. Cancel button	Cancel writing and return to the previous screen
2. Voice input button	Call voice input popup * See 6.3
3. SNS select button (toggle)	Select / unselect Tweeter / Facebook Select * An SNS button, to which account has not been set, is displayed in an unselected state, and, if pressed, perform connection through login.
4. Add photo button	- Move to Android photo album selection screen - Display the number of added photos  * In a state in which photos are added, move to photo management screen (see 3.6)
5. Input field	Text input window * Channel title and program title are automatically input after a cursor as hash tags * If TV related tag DB can be separately extracted, related tags are displayed first (In a case of playing back contents, input title and director of the corresponding video as tags)
6. Upload button	Upload written text - Display upload progress popup * See 7.4 * If upload time is 1 second or less, popup is not displayed.

3.5-1. Mini TV Player > SNS Writing > Photo addition

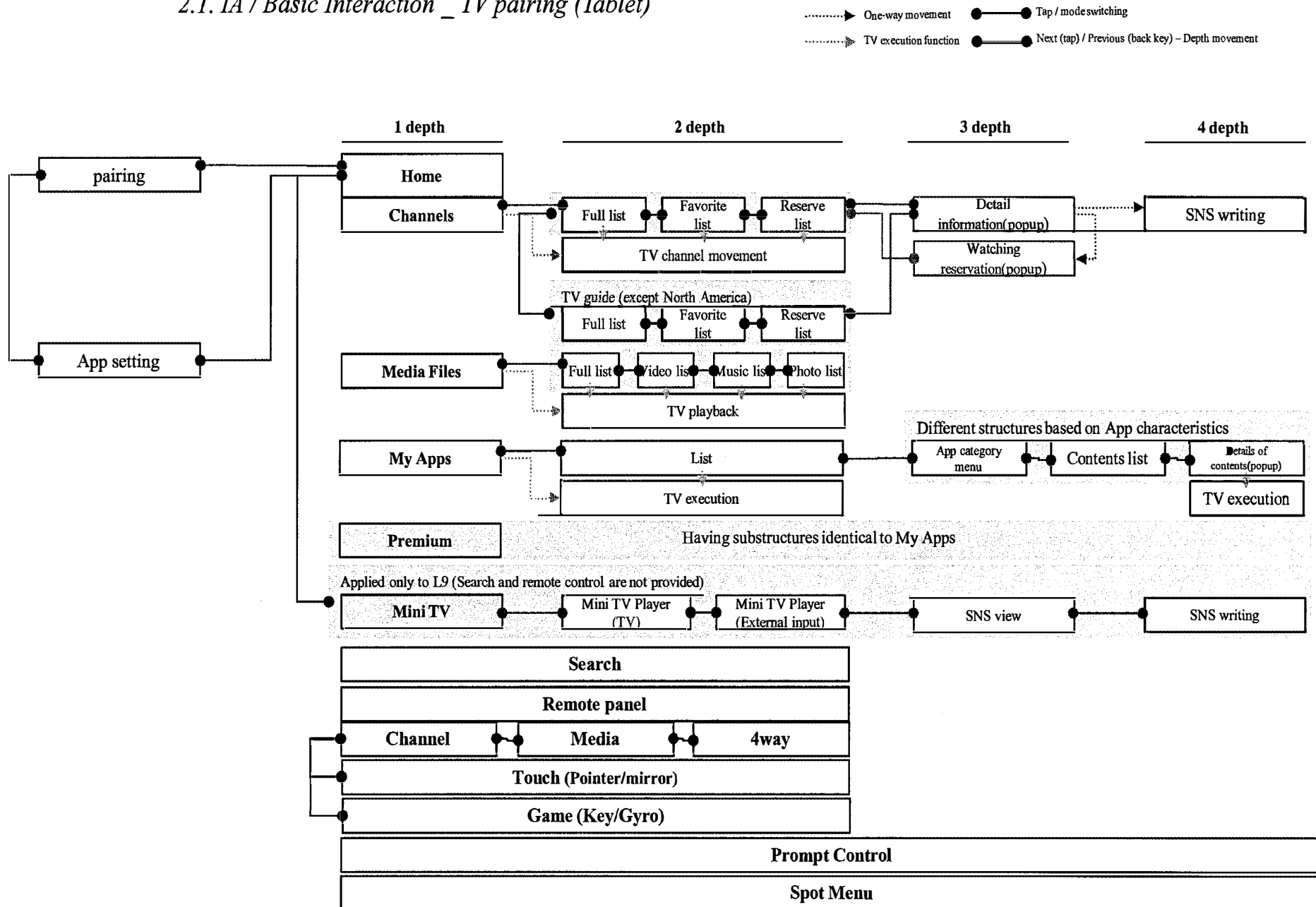
When pressing a photo addition button in a state in which photos are registered, an added photo list and an addition (+) button appear.
Tap a region except the photo management panel to return to the previous screen.



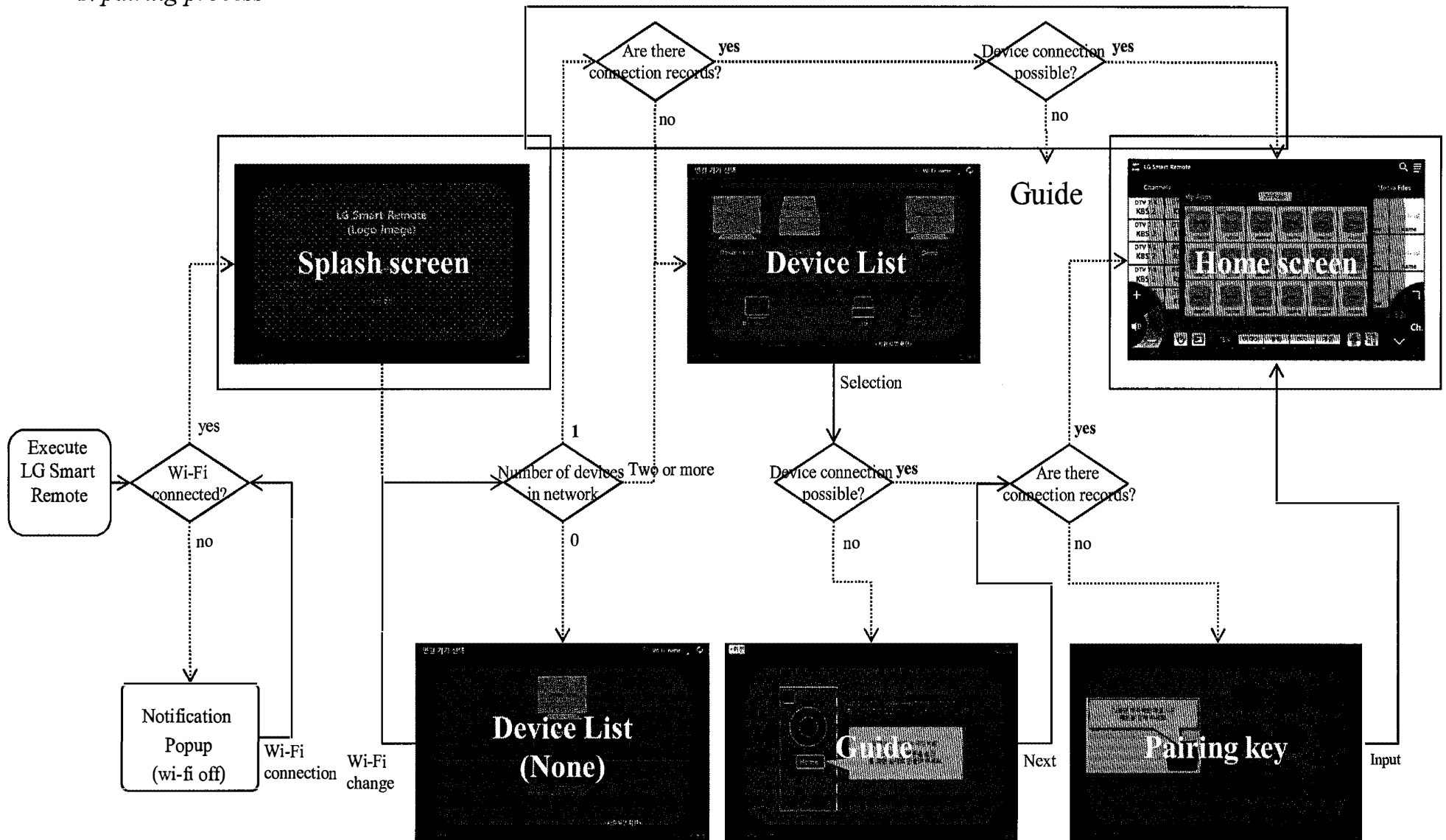
- If there is no added photo, photo album selection screen is opened without the current screen.

<i>Area</i>	<i>Description</i>
1. Photo list	Added photo list - Added photos may be immediately deleted by pressing a delete button
2. Add Library photo	Open a basic photo album selection screen

2.1. IA / Basic Interaction _TV pairing (Tablet)



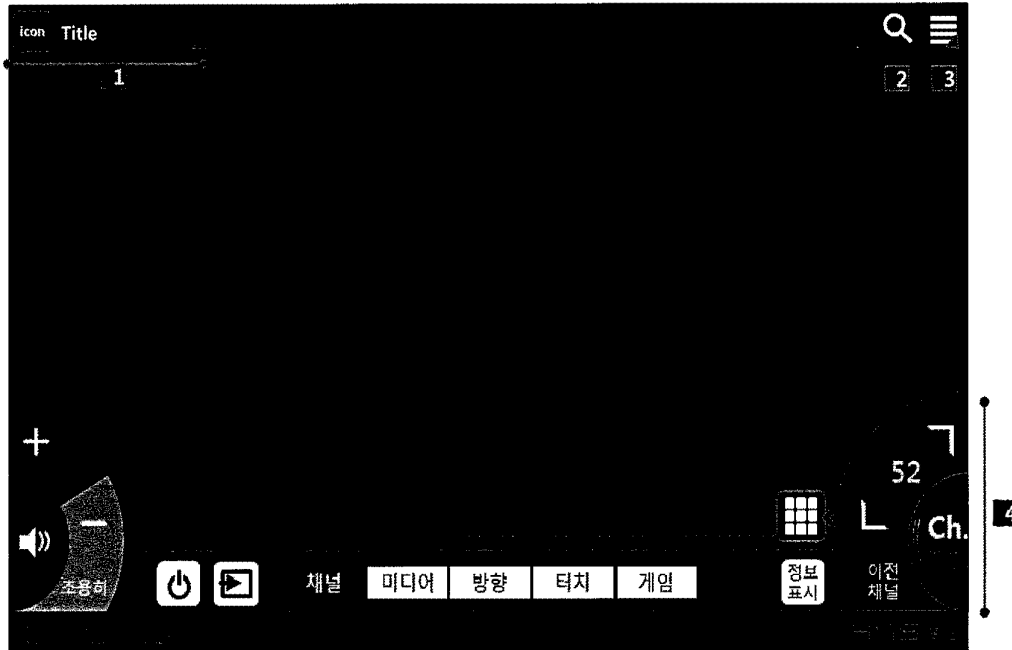
1. pairing process



2. Contents Common

Fixed provision of Action bar and Remote

* If remote panel is hidden or 'setting > one line remote' is set, the number of vertical lines on all contents list screens is increased by 1.



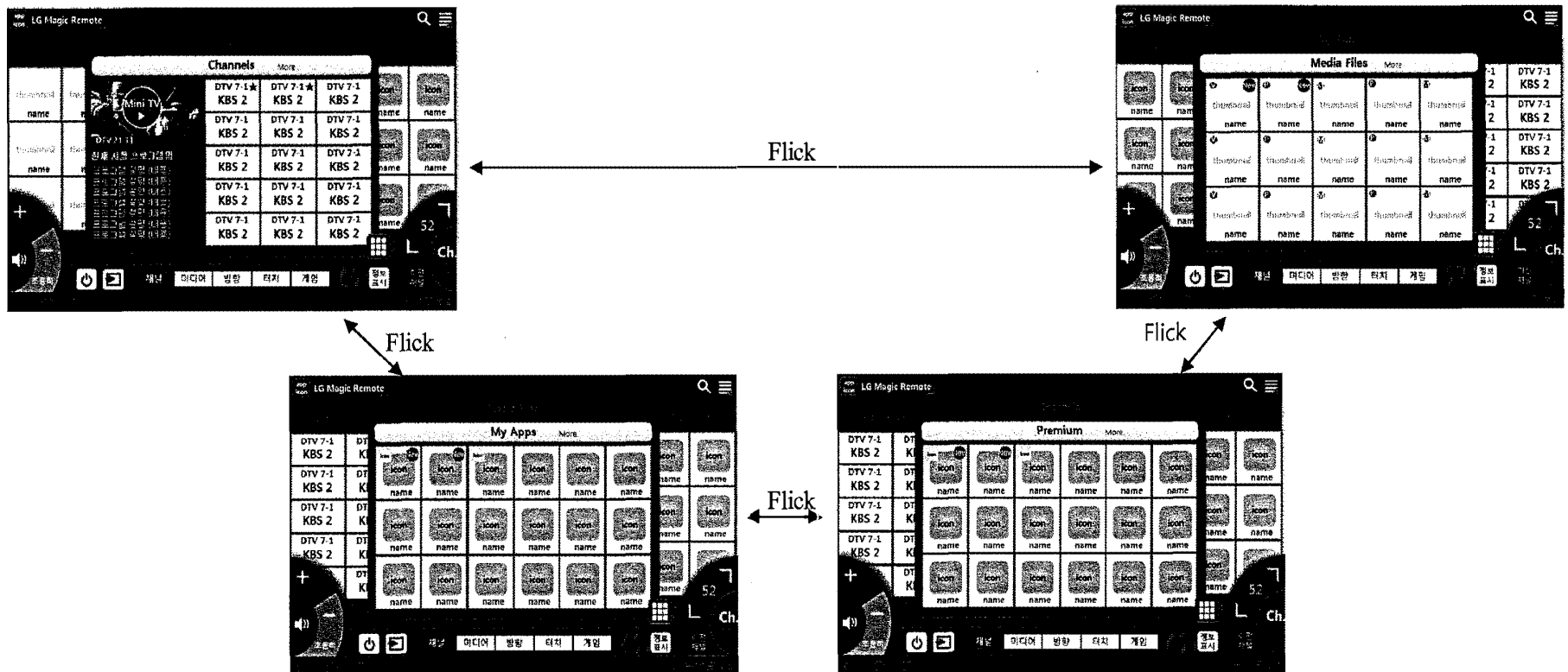
Area	Description
1. Menu Launcher (icon+title) button	Display title icon and name of the current screen - When selected, call a Menu launcher
2. Search button	Activate search
3. Option menu	Call an Option menu
4. Remote	Automatic change of control key based on a TV state (tab) - Broadcast watch state: Channel tab - Media watch state: Media tab - Game App state: Game tab - State of home dashboard / other apps not exhibiting media and game characteristics: Direction tab * For detailed description of Remote, see Chapter 4

2.1. Contents > Home

The home structure is divided into four sections, such as Channels, My Apps, Premium, and Media Files.

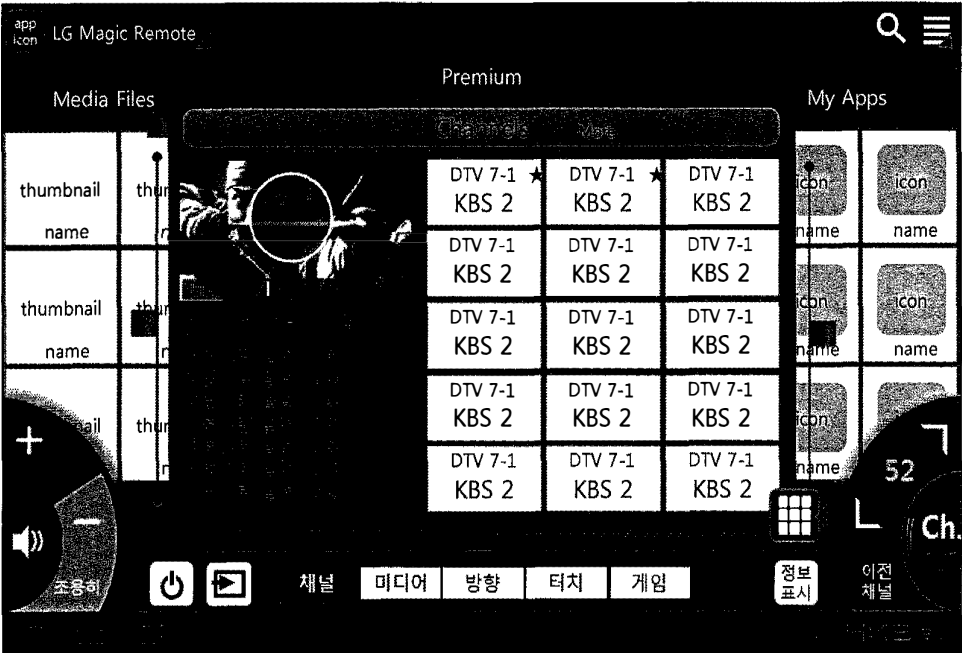
-In the Channel section, information of the currently watched program and a Mini TV playback button are displayed
(* A Mini TV function is provided only for L9).

- Drag / flick left to right or right to left or tap section title to move between sections



2.1.2. Contents > Home > Channels section

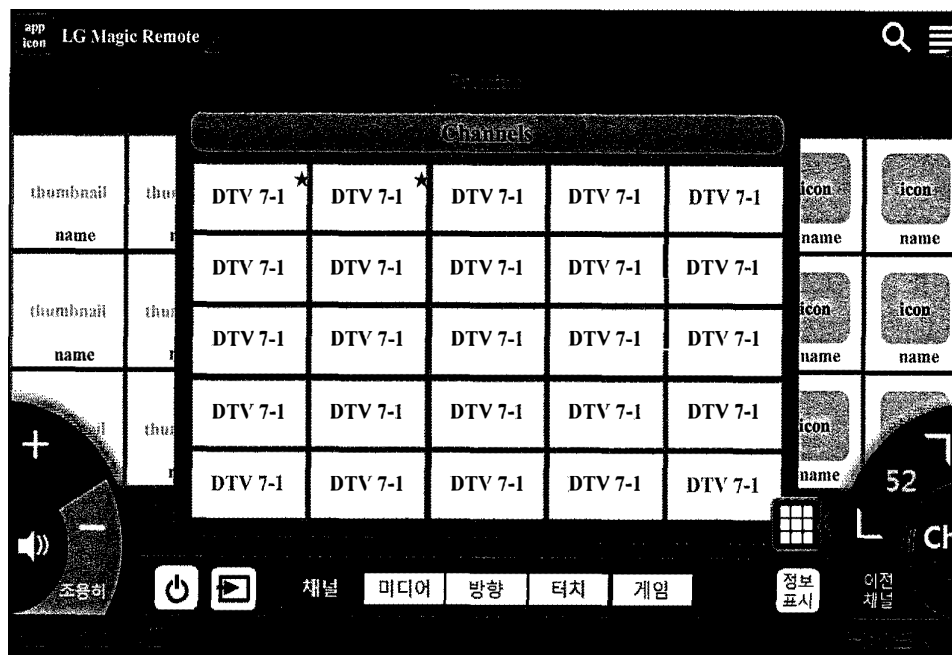
My channel (favorite channel) item of the channel items is displayed first, and the remaining items are displayed in order of recent playback > channel number.
If Mini TV is not supported (all except L9), information of the currently watched program and a Mini TV playback button are excluded.



Area	Description
1. More button	Move to a full channel list screen
2. Program info.	Display program information of the currently watched channel - Broadcast thumbnail - Channel number - Broadcast progress status bar - Mini TV button - Program title - Detailed contents of program * If the current TV state is not a broadcast watch state, display of a Mini TV playback button and guide instruction
<If the current TV state is not a broadcast watch state>	
3. Ch. list	- When selected, movement between TV channels is performed. * If Mini TV is activated, the selected channel is played back on Mini TV. - Construction: Channel number + Favorite icon - Sorting: Favorite > Recent > Ch. Number <Favorite> - Favorite channel item registered in Magic Remote app <Recent> - Recently moved channel in Magic Remote app

2.1.2-3. Contents > Home > Channels section _(mini info. thumbnail and channel information is not possible)

| Screen appearing when thumbnail and channel information are not provided



2.2. Contents > Channels (2depth) Common

Screen appearing when Channels are selected by Menu Launcher or a Channels more button is pressed at home



Area	Description
1. App icon	Move to previous screen
2. Category tab	Select category
3. Sorting list (Combo box)	Set contents sorting mode Sorting in order of recently watched channels: default •Items, data of which cannot be collected according to specification, are excluded. Recently watched channel Recently watched channel Channel number Channel title
4. View mode button (toggle)	Change a list view mode - List type / Grid type (default))
5. EPG button (toggle)	Move to a TV guide (program table) screen
6. Search button	Change to a search mode
7. Option menu	Call an option menu
8. Filtering button (toggle)	Favorite channel list / Full channel list - Default: All channels (button off)
9. Navigator	Display position of the current page - Every 8 channels are displayed as a pointer
9-1. Page info	Display channel information for each page - If navigator is dragged or a channel list is continuously flicked, a channel information popup of the corresponding position is displayed.

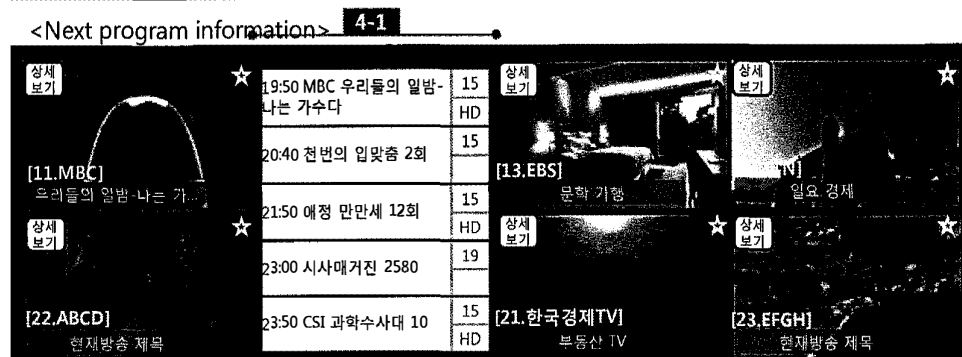
2.2.1. Contents > Channels (2depth) > Grid view (default)

Horizontal scroll: Channel search

Display of current channel focus. If an item is tapped, TV channel is changed and focused.

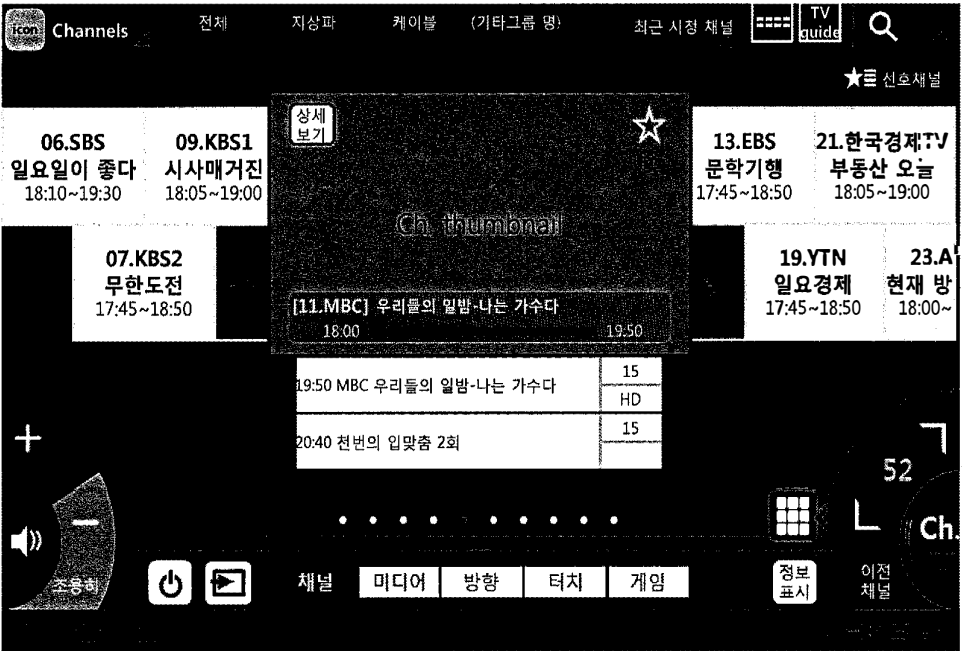


Area	Description
1. Ch. List	Display eight channels in a screen - Item currently watched on the TV is focused and displayed. - Horizontal drag / flick: Channel scroll - Channel list: channel thumbnail / broadcast title image (updated every 4 seconds for a watched channel), channel number, channel title, program title, Detail view button, and Favorite button
2. Detail info button	Call a detail view popup
3. Staring button (toggle)	Register / unregister favorite channels * Not synchronized with TV
4. Next program info button (toggle)	Call the next broadcast guide of the corresponding channel Channel list is pushed to the left side by one line and called at the left side of the selected item * Not displayed if there is no program information
4-1. Next program info.	Guide the next broadcast of the corresponding channel -hh:mm Program tile + Age limit icon (no icon for G-rated programs) + Broadcast kind icon (no icon for general broadcasts) * Not displayed if there is no program information * If the number of items exceeds the display region (channel list height), the list region may be scrolled.



2.2.2. Contents > Channels (2depth) > Flow view

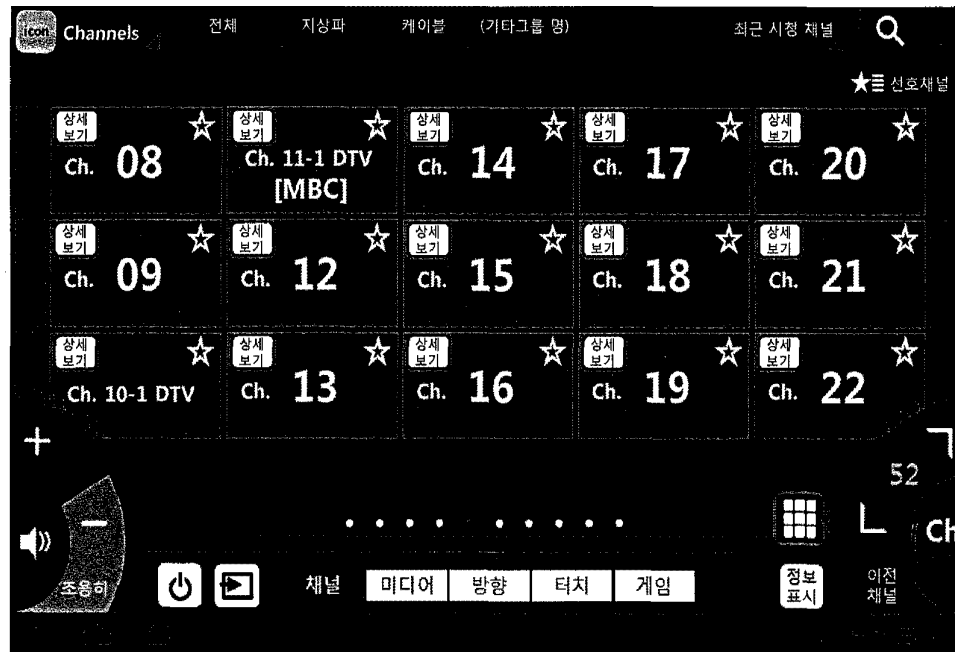
Horizontal scroll: Channel search
Middle focus mode (current channel focus at the time of first entry to the current screen). If a focused item is tapped, TV channel is changed.



Area	Description
1. Ch. List	Display eight channels in a screen - Middle item tap: Change TV channel - Periphery item tap: Move to the middle - Horizontal drag / flick: Channel scroll - Middle focus items: channel thumbnail / broadcast title image (updated every 4 seconds for a watched channel), channel number, channel title, program title, broadcast time, and running time (bar) indication + Detail view button and Favorite button - Previous / next channel items: channel number, channel title, program title, and broadcast time
2. Next program info.	Guide the next broadcast of the corresponding channel - hh:mm Program tile + Age limit icon (no icon for G-rated programs) + Broadcast kind icon (no icon for general broadcasts) * Not displayed if there is no program information * If the number of items exceeds the display region (channel list height), the list region may be scrolled.

2.2.2-1. Contents > Channels (2depth) > Provision of thumbnail / channel information is not possible

Screen appearing when there is no program information
A view mode is not changed.



2.2.3. Contents > Channels (2depth) > TV guide

Appearing when pressing a broadcast guide button on the channel list and selecting option menu > broadcast guide

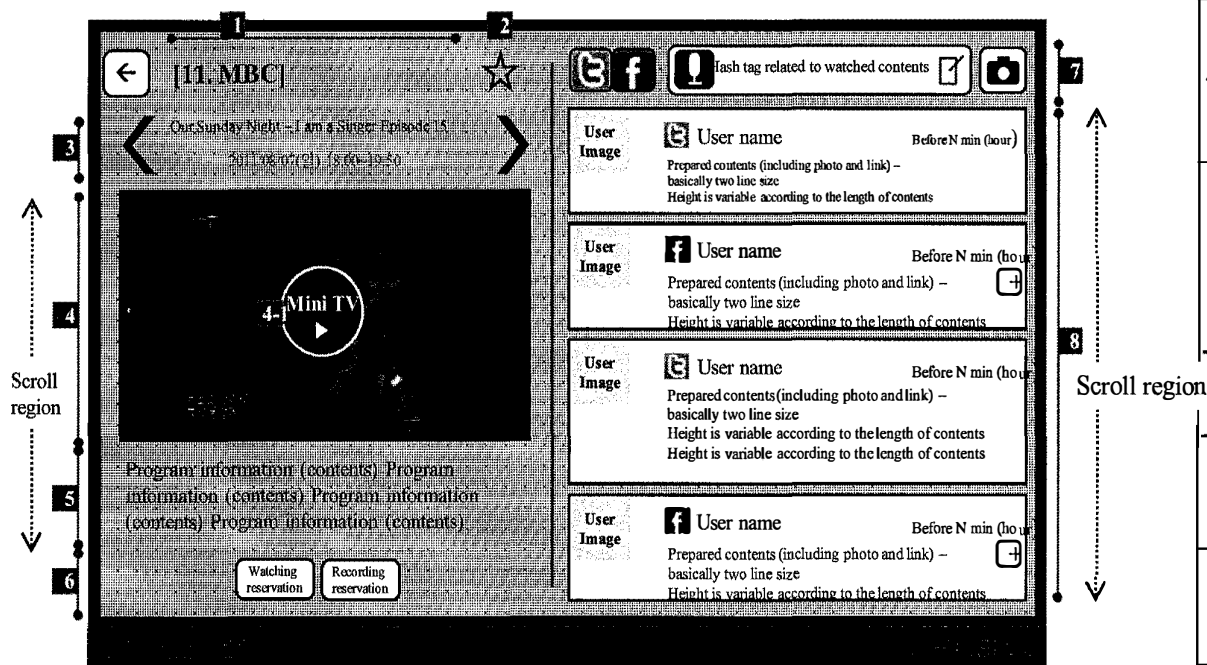
- According to EPG cooperation policy, the channel broadcast guide is not
- provided without DB linking.



Area	Description
1. Channel list button (toggle)	Move to a channel list screen
2. Reserve filtering button (toggle)	Reserve program list / Full program list - Default: All programs (button off)
3. Date button	Display date on a scroll position - nnn/dd(day) - yyyy/mm when filtering a reserve list - Tap: Call a date selection popup (see 6.3)
4. Timeline	Time division display (30 minute unit) Current time is positioned at the middle of the timeline * No time division when filtering a reserve list
5. Ch. List	- Display channel number and channel title - Scroll is positioned so that the currently watched channel is located in the first place at the time of screen entry - Tap: Change TV channel (see 2.2-4) - Provision of a favorite channel toggle button
6. Program list (all)	Display a program for each time zone of each channel - Tap: Call a detail view popup (see 2.2-3) - Display a program name on a line * Display text ellipsis (...) when text overflow occurs. - When there are two or more programs in one time zone, the programs are provided in a vertically divided state. - GUIs of the current broadcasting program items are divided using text colors
7. Program list (Reserved)	When a reserve tab is selected, time unit division disappears, and programs are divided and displayed in program units for each channel. * First reserve list is positioned at the first place of the list. IF the first list is a recorded list, the recorded list is positioned at the first place. - Recorded items are marked by different colors. - Tap: Call a detail view popup (see 2.2-3) - Display date (MM/DD(day)), time (hh:mm), and program title (maximum 2 lines) * Display text ellipsis (...) when text overflow occurs.

2.2.4. Contents > Channels (2depth) > Detail information (Provision of max-Full EPG information)

A screen displayed when pressing a channel detail view button

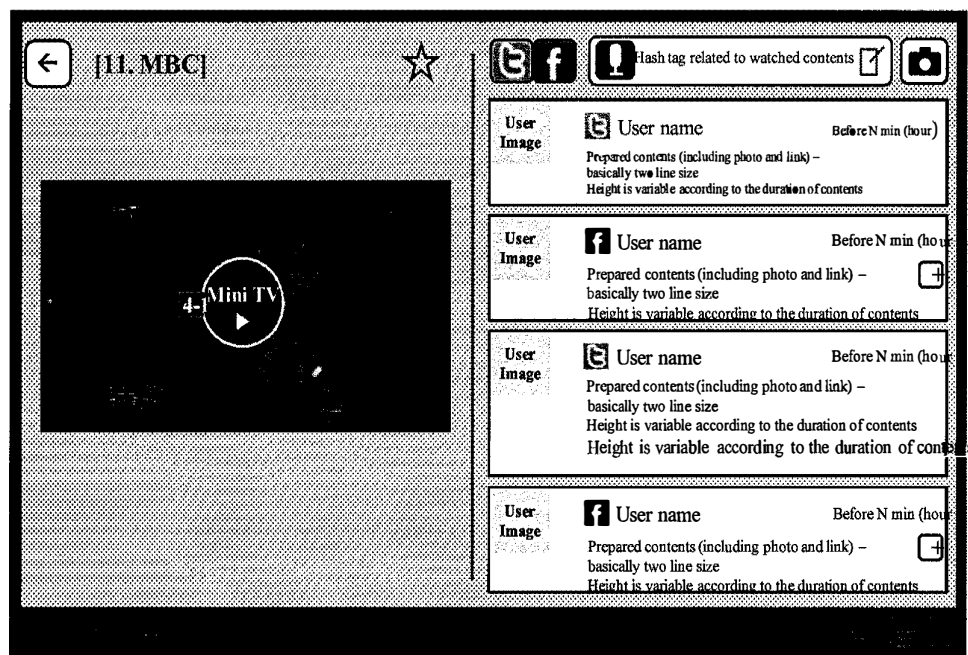


Area	Description
1. Ch. title	Display selected channel number and channel title
2. Staring button (toggle)	Register / unregister favorite channels
3. Program title	1. Previous / next program selection button: move to a program previous / next to the current channel 2. Display program title (including episode number) and running time (YYYY/MM/DD(day) hh:mm ~ hh:mm)
4. Program title Image	- Items during watching: current broadcast screen thumbnail (updated every four seconds) + Progress status bar - Items to be broadcast: Program title image
4-1. (Mini TV) Play button	1. During watching on TV: Display a Mini TV button - Execute Mini TV (see 3.1) 2. For recorded items (stored file is maintained): Display a playback button – playback of recorded file.
5. Detail info.	Display production staff / performance staff, program introduction, and detailed synopsis of the current episode
6. Reserve button	Call a selected program reserve popup (sec 2.2-3) * displayed only for programs to be broadcast
7. SNS upload component	See 3.4.1 to 3.4.5 * If there is no registered account when selecting an input field, connection is performed on the login screen.
8. Search SNS list	Display a related (extracted by program tag / program title if there is no program tag, channel number, channel title, and performer name) up-to-date text list - SNS icon (Tweeter and Facebook) + User name + Contents - Displayed in one line for each item (Display of text ellipsis (...) when text overflow occurs) - Detail view popup when selecting text item (see 3.4-2)
9. Back button	Return to the previous screen

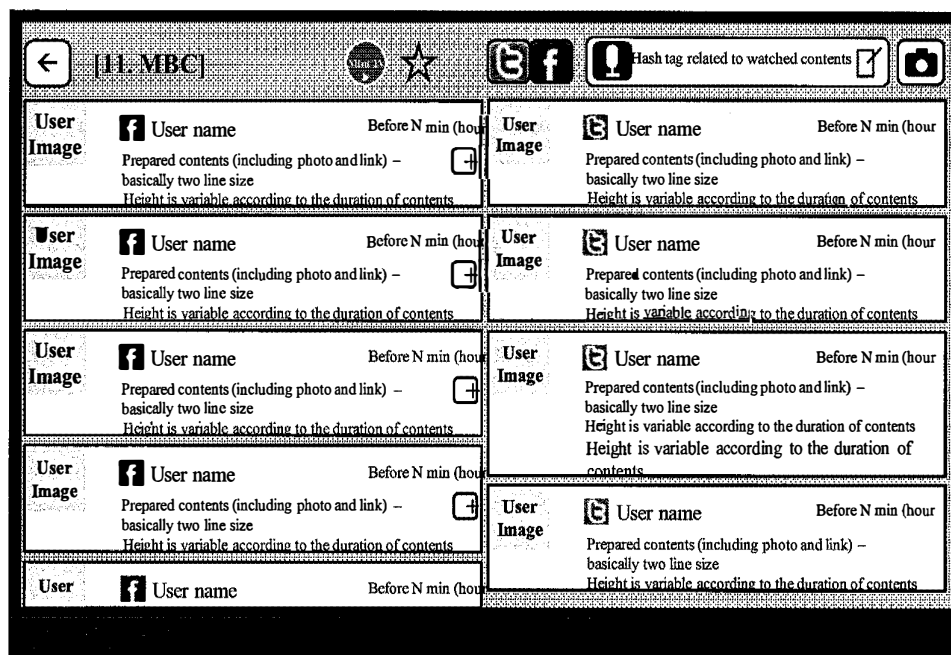
2.2.4. Contents > Channels (2depth) > Detail information (extraction of mini-thumbnail / channel information is not possible)

| Configured as follows if extraction of thumbnail is not possible or program information is not provided

< Extraction of broadcast information is not possible >

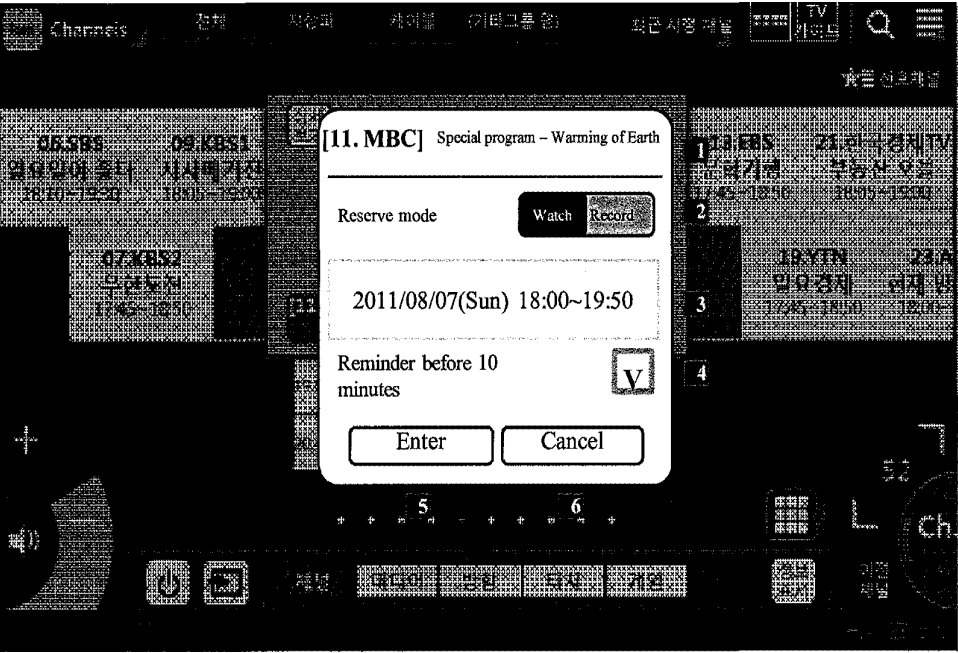


< Extraction of thumbnail / broadcast information is not possible >



2.2-5. Contents > Channels (2depth) > Watch / Record reserve (popup)

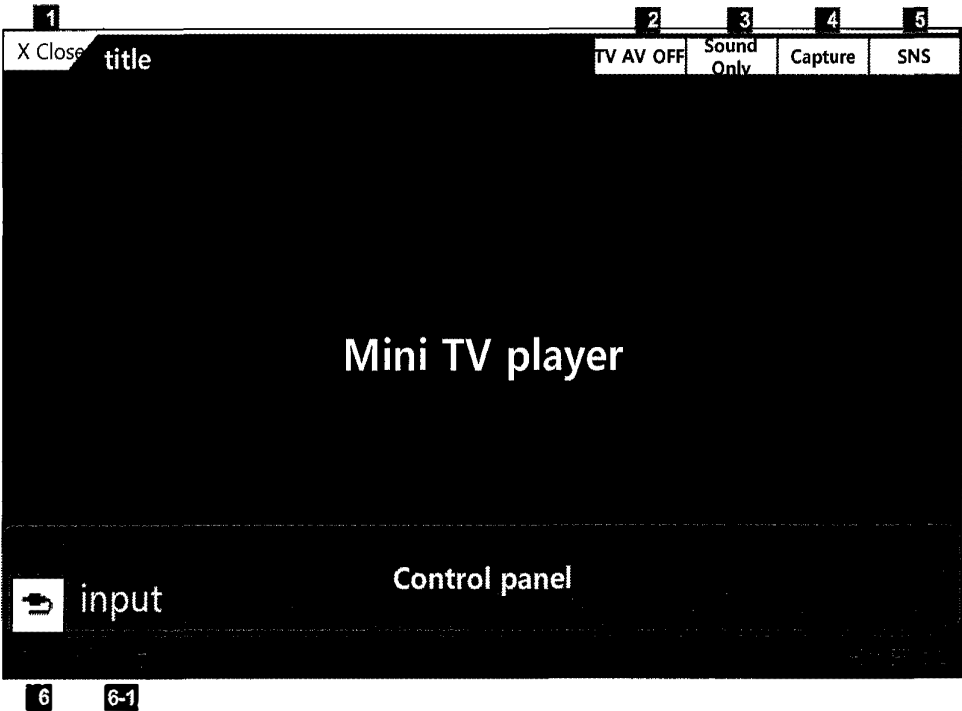
Screen appearing when pressing a reserve button



Area	Description
1. Ch. title	Display selected channel number, channel title, and program title
2. Watch/Record Switch button	Select selected program reserve type Switch: Watch / Record * If record reserve is not possible, only a message of 'Watch reserve' is displayed.
3. Program info.	Display year / month / date / time information of selected program
4. Alarm Check box	Activate / inactivate a reminder function
5. OK button	Popup close after function setting
6. Cancel button	Popup close after setting cancellation

3. Mini TV Player common(2)

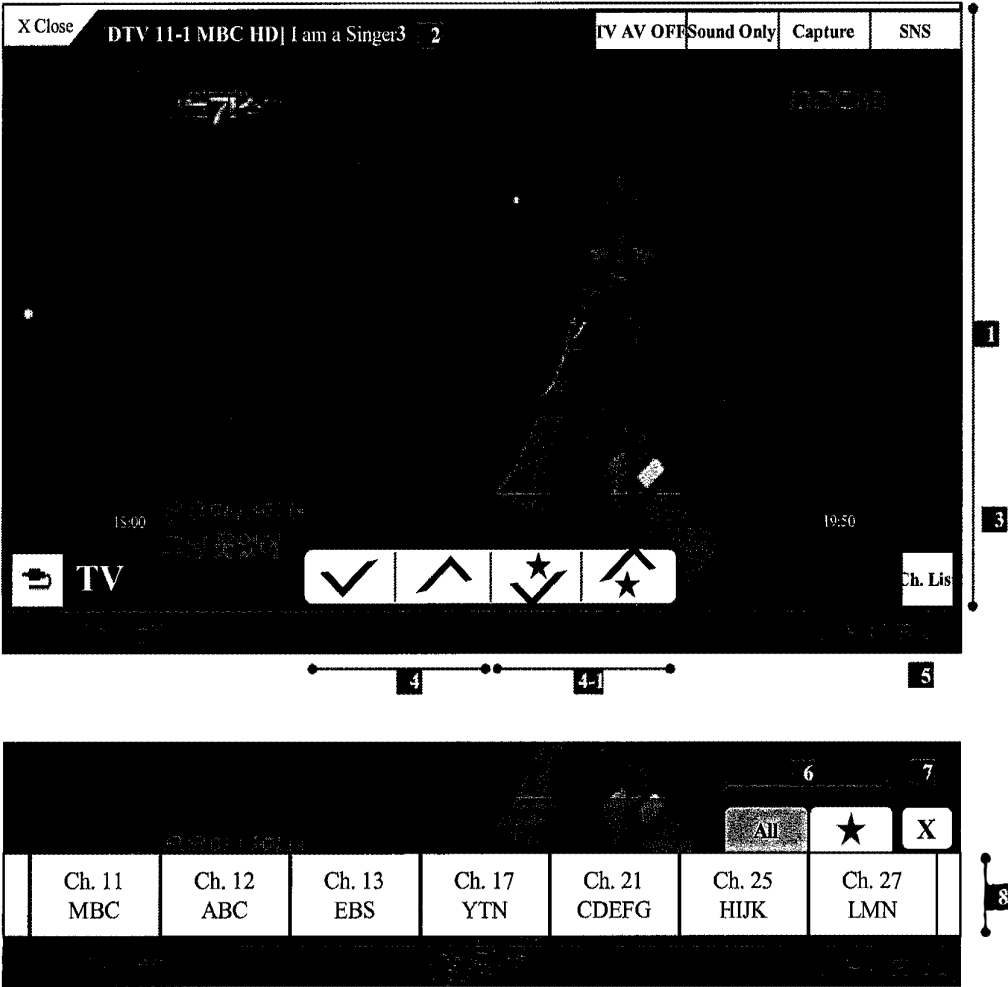
Select Option menu > Mini TV or press Home > Channels > Mini TV button to execute Mini TV

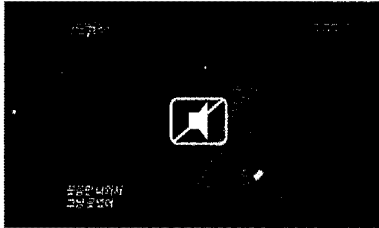


Area	Description																				
1. EXIT button	Finish Mini TV and return to My home screen																				
2. TV AV ON/OFF	Turn off TV LCD and mute TV volume * Turn on TV LCD and unmute TV volume																				
3. Back Ground Mode button (toggle)	Sound Only function On / Off - Sound only On: 1. Device screen is turned off, and sound continues to be played back. 2. Sound of contents being watched on Mini TV is maintained at the time of exit. * Control by OS multitasking management is possible - Sound only OFF: Mini TV is finished at the time of EXIT																				
4. Capture button	Capture current video screen (stored in Android photo album)																				
5. SNS button	Display an SNS panel * see 3.5																				
6. Input selection button	Call an external input selection popup to be watched on TV or Mini TV - When external input is changed after selection of Mini TV tab, change from tablet to the corresponding input screen is achieved. - When external input is changed after selection of Mini TV tab, change from TV to the corresponding input screen is achieved. - Currently selected external input item is selected and displayed. When another item is selected, popup is finished. * Supported but un-switchable input items are dimmed																				
<table><tr><th>icon</th><th>Mini TV</th><th>icon</th><th>Main TV</th></tr><tr><td>TV</td><td>☒</td><td>TV</td><td>☒</td></tr><tr><td>HDMI - DVD Player</td><td>☐</td><td>HDMI - DVD Player</td><td>☐</td></tr><tr><td>Component 1</td><td>☐</td><td>Component 1</td><td>☐</td></tr><tr><td>PC</td><td>☐</td><td>PC</td><td>☐</td></tr></table>  TV		icon	Mini TV	icon	Main TV	TV	☒	TV	☒	HDMI - DVD Player	☐	HDMI - DVD Player	☐	Component 1	☐	Component 1	☐	PC	☐	PC	☐
icon	Mini TV	icon	Main TV																		
TV	☒	TV	☒																		
HDMI - DVD Player	☐	HDMI - DVD Player	☐																		
Component 1	☐	Component 1	☐																		
PC	☐	PC	☐																		
6-1. Input info.	Display input kinds selected by the current tablet Attorney Docket No. UA1																				

3.1. Mini TV Player > TV(Air)

Basic screen appearing when ‘Mini TV’ is played back in a broadcast watching state
Screen appearing when Input > TV is selected in a Mini TV state
Mini TV is fixed in a landscape mode.



Area	Description
1. Screen	Display a broadcast screen <interaction> 1. Tap: Reveal / hide panel 2. Double tap: change an aspect ratio - Storage aspect ratio (default) / Full screen 3. Flick down / right: Previous channel 4. Flick up / left: Next channel 5. Multi tap: Mute / unmute device volume  *control device volume by hard key 4. Pinch close: Apply the current input of TV to Mini TV 5. Pinch open: Apply the current input of device to TV
2. Title	1. Live TV: A case in which there are channel title and broadcast title •Marquee program title if region overflow occurs. - DTV 11-1 MBC HD I am a Singer episode 3 2. Live TV: A case in which there is channel title - DTV 11-1 MBC HD 3. Live TV: A case in which there is neither channel title nor broadcast title - DTV 11-1
3. Time Status control	Start / end time of the current program (hh:mm), Indication of progress status bar
4. Ch. Control button	Move to channel
4-1. Favorite Ch. Control button	Move to favorite channel
5. Ch. List button	Call a channel list
6. Ch. tab	All channels / Favorite channels (default)
7. Ch. List close button	Close a channel list
8. Ch. list	- Display the current channel as the first item - When selected, channel is changed.

Attorney Work Product No. 11017-0002

Section 3

3.2. Mini TV Player > External input (LG BDP)

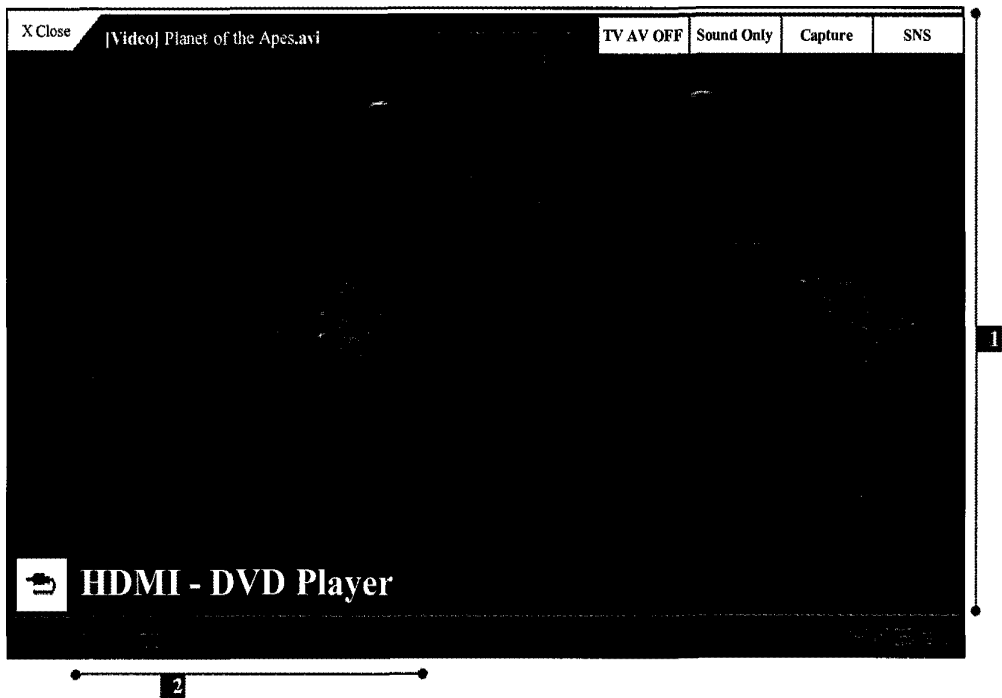
Basic screen appearing when 'Mini TV' is played back in an LG BDP watching state
Screen appearing when Input > LG BDP of the external input items is selected in a Mini TV state
Mini TV is fixed in a landscape mode.



Area	Description
1. Screen	Display a broadcast screen <interaction> 1. Tap: Reveal / hide panel 2. Double tap: change an aspect ratio - Storage aspect ratio (default) / Full screen 3. Multi tap: Mute / unmute device volume * Device volume is controlled by hard key 4. Pinch close: Apply the current input of TV to Mini TV 5. Pinch open: Apply the current input of device to TV
2. Title	Display media kind and media file name - Marquee if region overflow occurs.
3. Time Status control	Current / full time of the current video (hh:mm:ss), Indication of progress status bar-handler drag : Time shift
4. RW /FF button	Rewind / Fast forward button<interaction> 1. Tap: Skip (15 second unit) 2. Press & hold: Fast forward (1 minute per second)
4-1. Play/Pause button (toggle)	Play / Pause <Pause state> <Playback state>  
5. Info button	Call a disc information popup See 8.2.3

3.3. Mini TV Player > External input (Others)

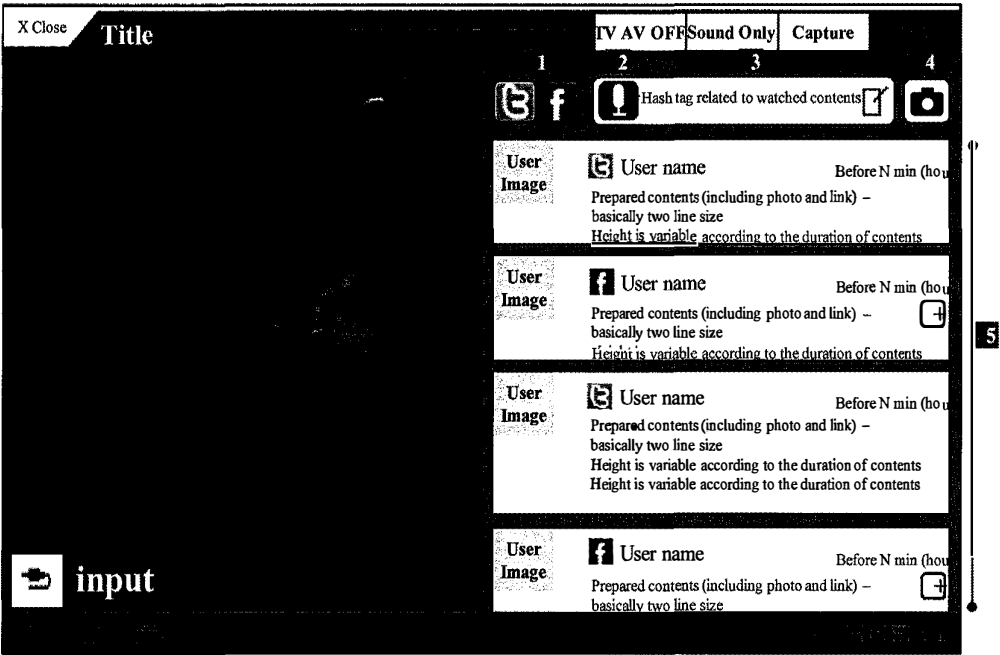
Basic screen appearing when 'Mini TV' is played back in an external input watching state
Screen appearing when Input > external input item is selected in a Mini TV state
Mini TV is fixed in a landscape mode.



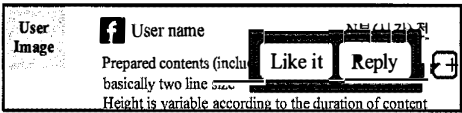
Area	Description
1. Screen	Display a broadcast screen <interaction> 1. Tap: Reveal / hide panel 2. Double tap: change an aspect ratio - Storage aspect ratio (default) / Full screen 3. Multi tap: Mute / unmute device volume * Device volume is controlled by hard key 4. Pinch close: Apply the current input of TV to Mini TV 5. Pinch open: Apply the current input of device to TV
2. Input info.	-HDMI, Component, Composite: A case in which there is a device name HDMI 1 - DVD Player -HDMI, Component, Composite: A case in which there is no device name Component 1

3.4.1. Mini TV Player > SNS > List

Screen appearing when an SNS button is pressed during playback of TV / Video contents
Displaying real-time SNS contents (broadcast title / file names, Meta tag, etc.) related to watched contents



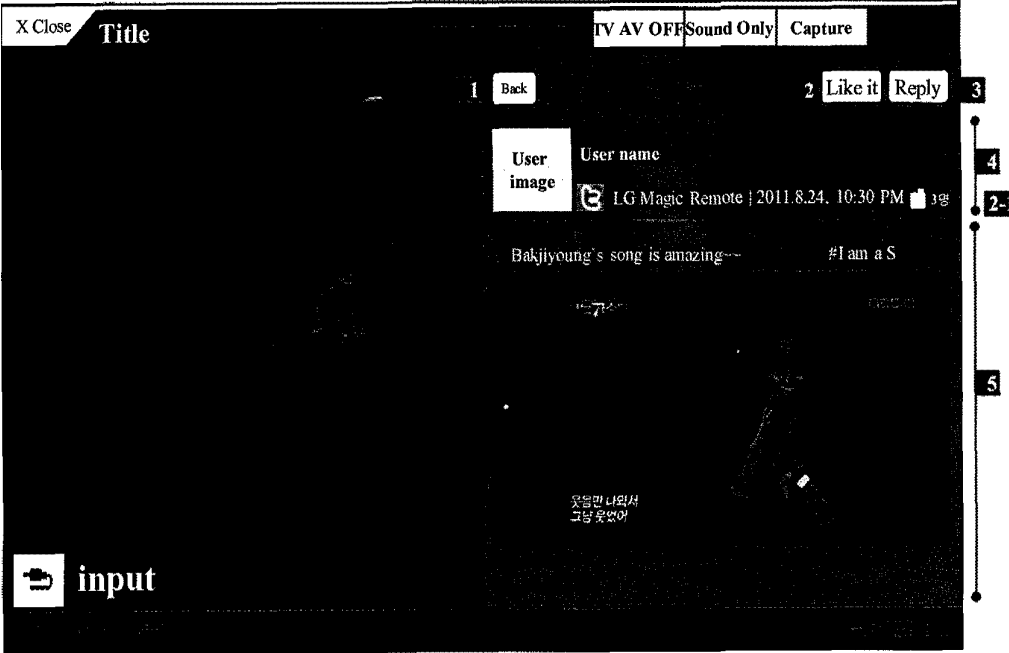
<Facebook item function button>



Area	Description
1. SNS select button (toggle)	Select / unselect Tweeter / Facebook - default: Select * An SNS button, to which account is not set, is displayed in an unselected state, and, if pressed, perform connection through login.
2. Voice input button	Call voice input popup See 6.3
3. Input field	Text input window - When selected, call a keypad - During writing, all input letter delete button is provided at the right. * Channel title and program title are automatically input after a cursor as hash tags * If TV related tag DB can be separately extracted, related tags are displayed first (In a case of playing back contents, input title and director of the corresponding video as tags)
4. Add photo button	- Move to an Android photo album selection screen - Display the number of added photos  * In a state in which photos are added, move to a photo management screen (see 3.6)
1. Search SNS list	Display a related up-to-date text list - SNS icon (Tweeter, Facebook) + User name + Contents + (Displaying the number of times of expressing "Like it" for Facebook) - Display maximum 20 lines (Display of text ellipsis (...) when text overflow occurs) - Display detail view when selecting text item (see 3.5)
3. SNS upload button	Move to a text screen (see 3.5) * If there is no registered account, connection is performed through Tweeter login (For a task scenario, see 7.2)

3.4.2. Mini TV Player > SNS > Details of contents

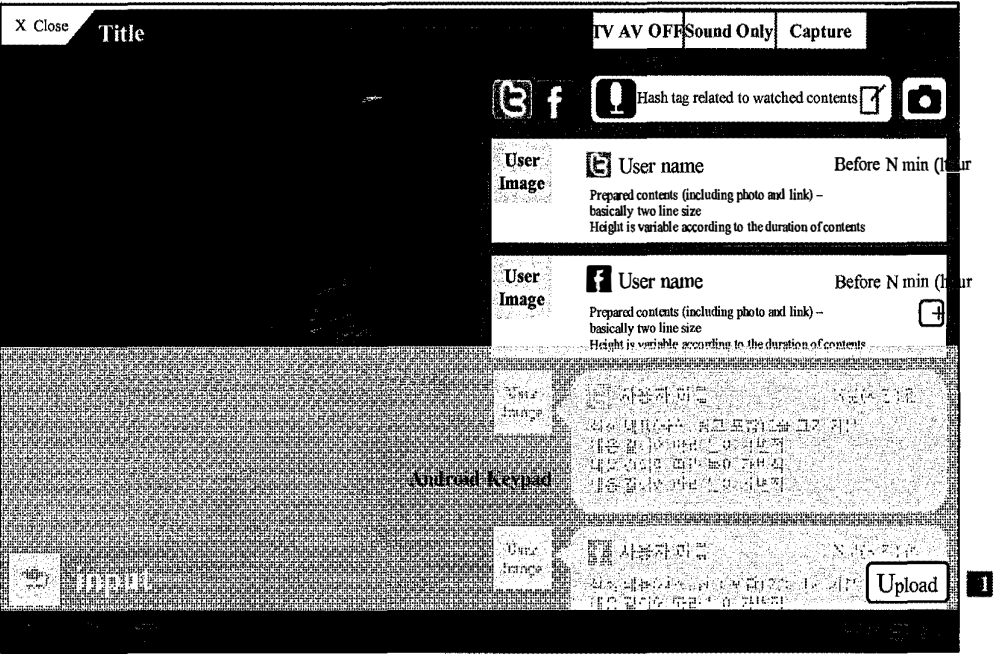
| Screen appearing when an SNS item is pressed



Area	Description
1. Back button	Return to the previous screen
2. like it button (toggle)	Input 'Like it' - In a state of 'Like it', cancel 'Like it' * Displayed only for Facebook
2-1. like it info.	Display popularity * Displayed only for Facebook
3. Replay button	Change to a reply writing format
4. Update info.	Display registration information - User photo + User name + SNS kind icon + Upload app + Upload data and time
5. Contents	Display text contents and photo - Photo size is original size - If original size is greater than the region, perform width adjustment in the text region

3.4.3. Mini TV Player > SNS > Activation of input window

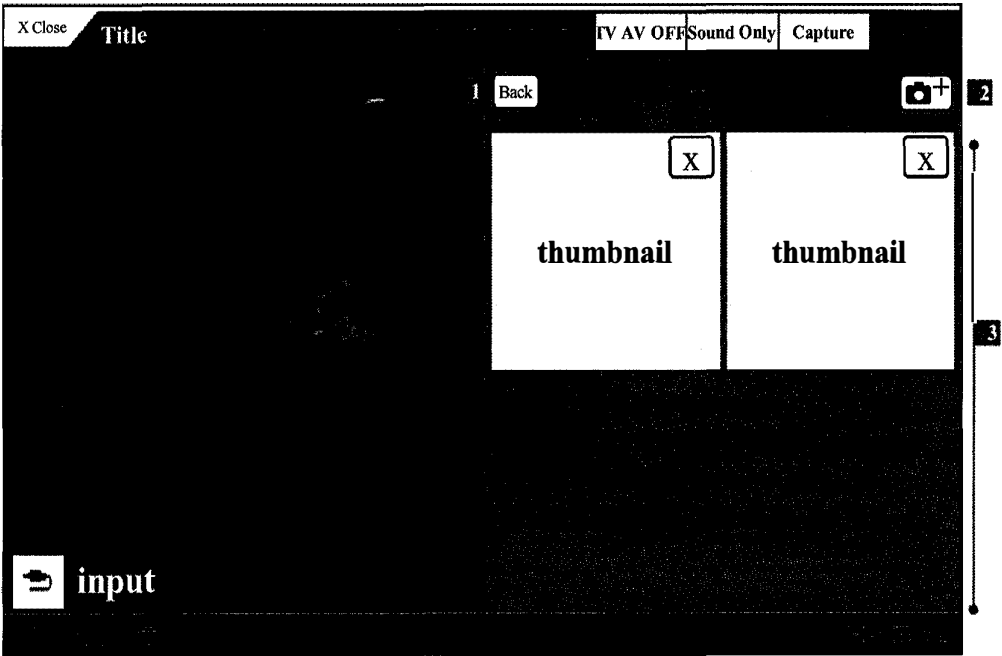
Screen appearing when an input window is pressed



Area	Description
1. Upload button	Upload written text - Display an upload progress popup * See 6.4 * If upload time is 1 second or less, popup is not displayed.

3.4.4. Mini TV Player > SNS writing > Photo addition

When pressing a photo addition button in a state in which photos are registered, an added photo list and an addition button appear.

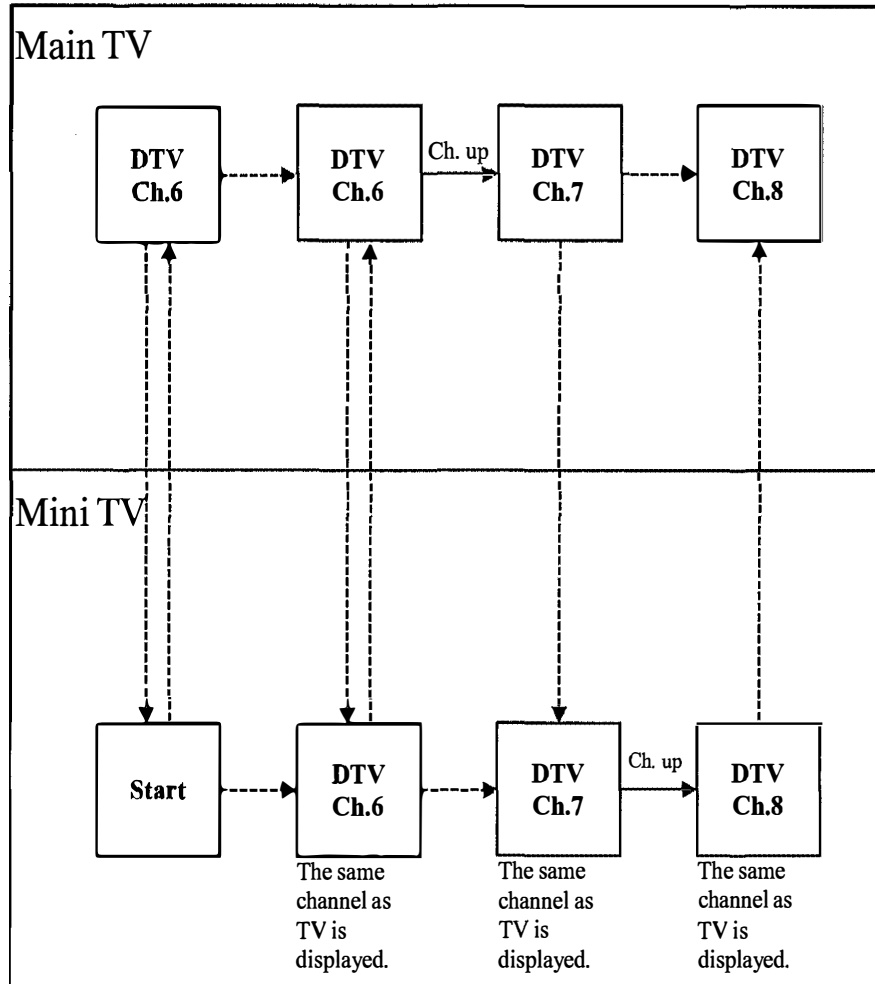


Area	Description
1. Photo list	Added photo list - Added photos may be immediately deleted by pressing a delete button
2. Add Library photo	Open a basic photo album selection screen
3. Photo list	Added photo list - Added photos may be immediately deleted by pressing a delete button

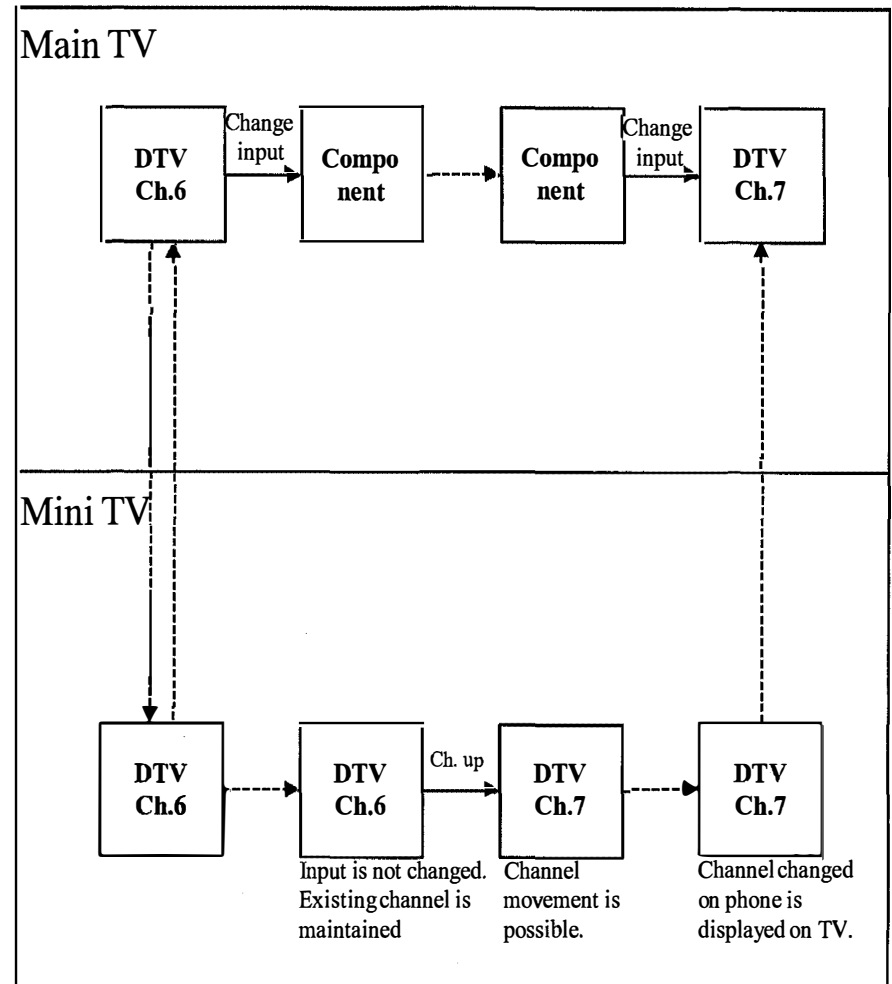
If there is no added photo, photo album selection screen is opened without the current screen.

3.6-1. Executable modes and switching method (Case in which TV is a TV normal watch screen)

< Channel change on TV / Tablet / Phone in a case in which TV is a TV normal watch screen >

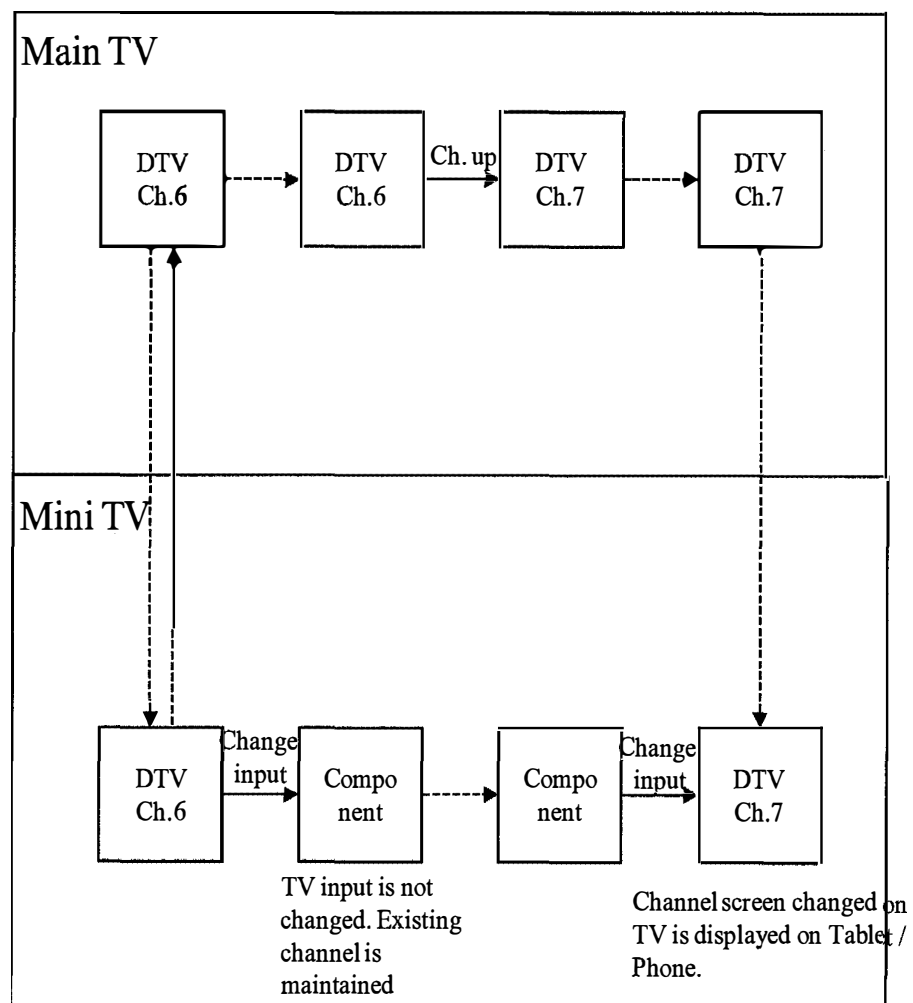


< Input change on TV / Tablet / Phone in a case in which TV is a TV normal watch screen >



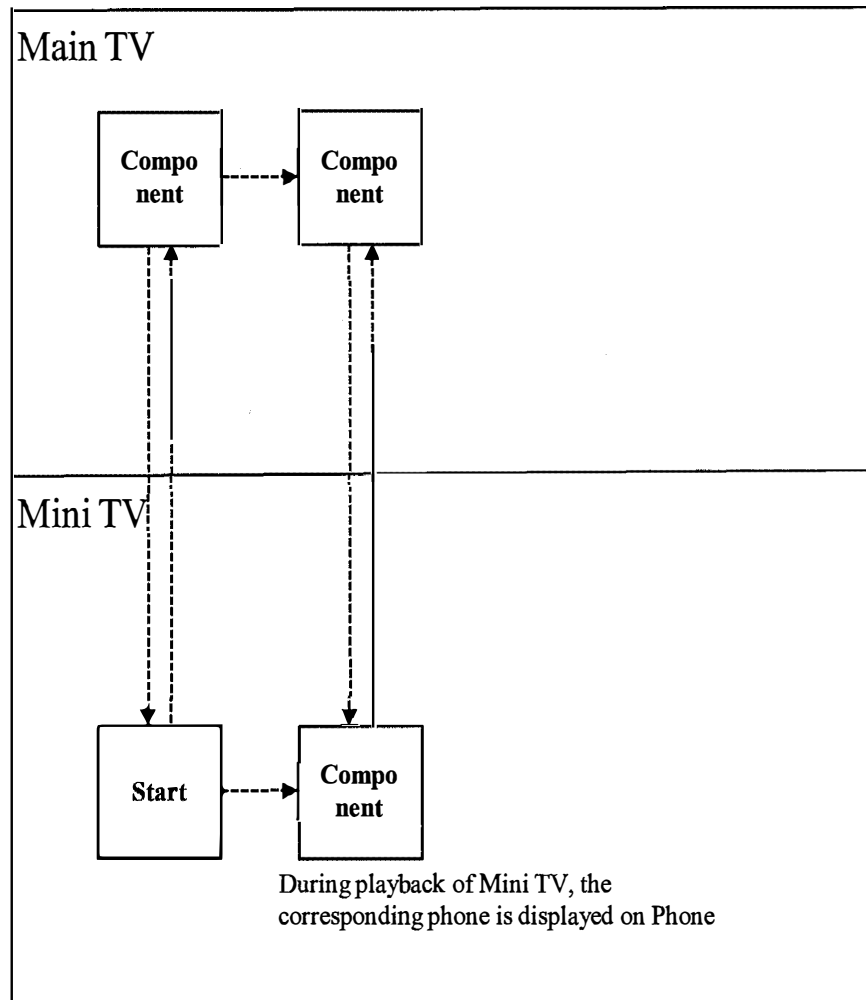
3.6-2. Executable modes and switching method (Case in which TV is a TV normal watch screen)

< Input change on Tablet / Phone in a case in which TV is a TV normal watch screen >

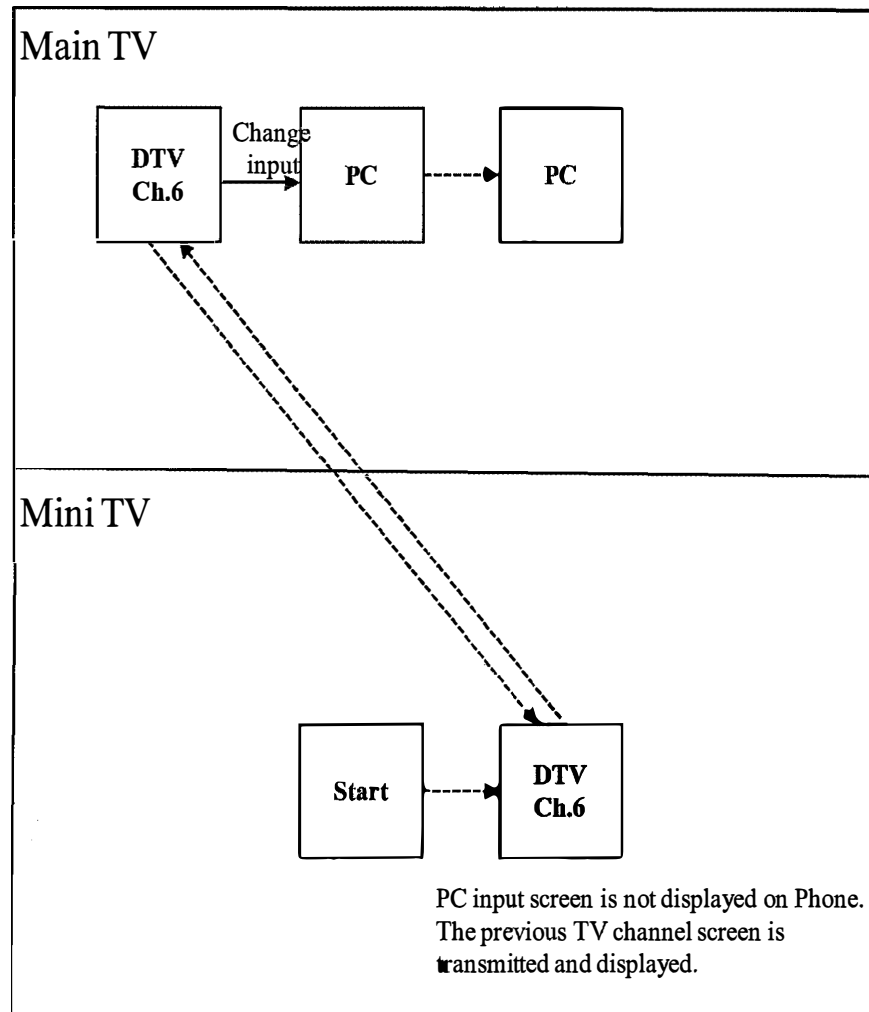


3.6-3. Executable modes and switching method (Case in which TV is a component input)

< Playback of Mini TV in a case in which TV is a component input screen >

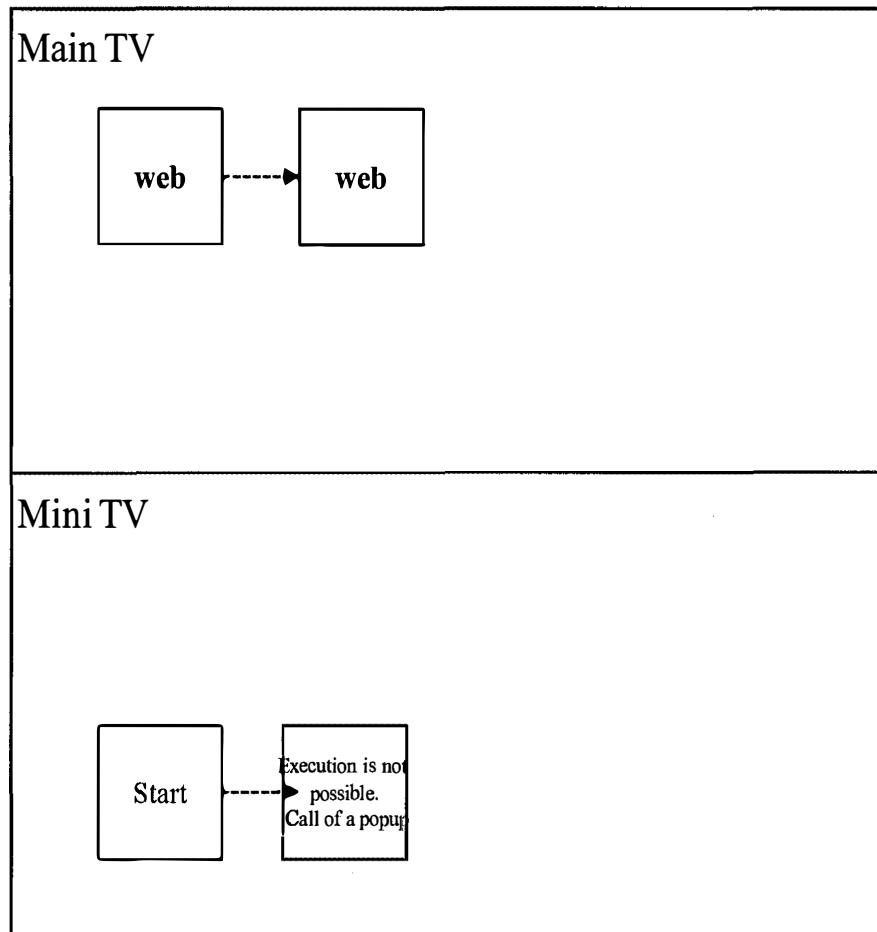


During playback of Mini TV, the corresponding phone is displayed on Phone

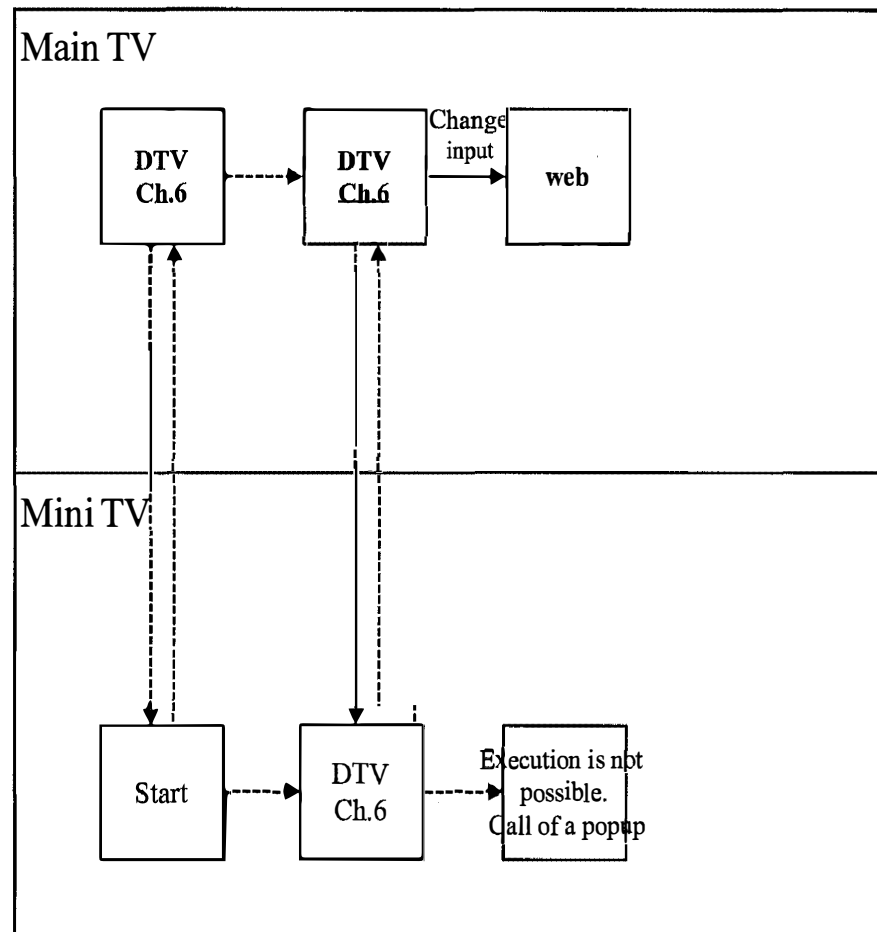


3.6-5. Executable modes and switching method (Case in which TV is a web screen)

< Playback of Mini TV in a case in which TV is a web screen >

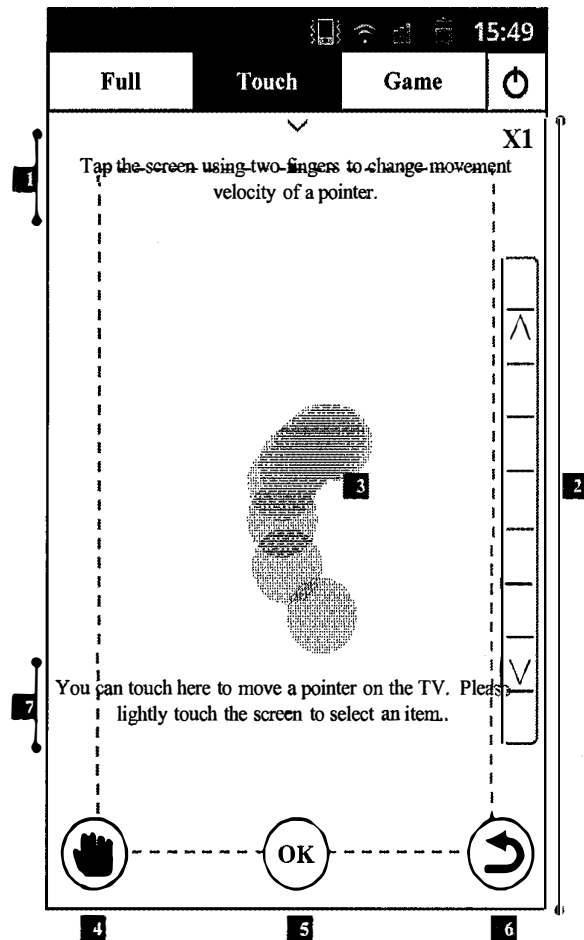


< Case in which input is changed from TV to a web screen >



4.2.1. Remote Panel > Touch pad

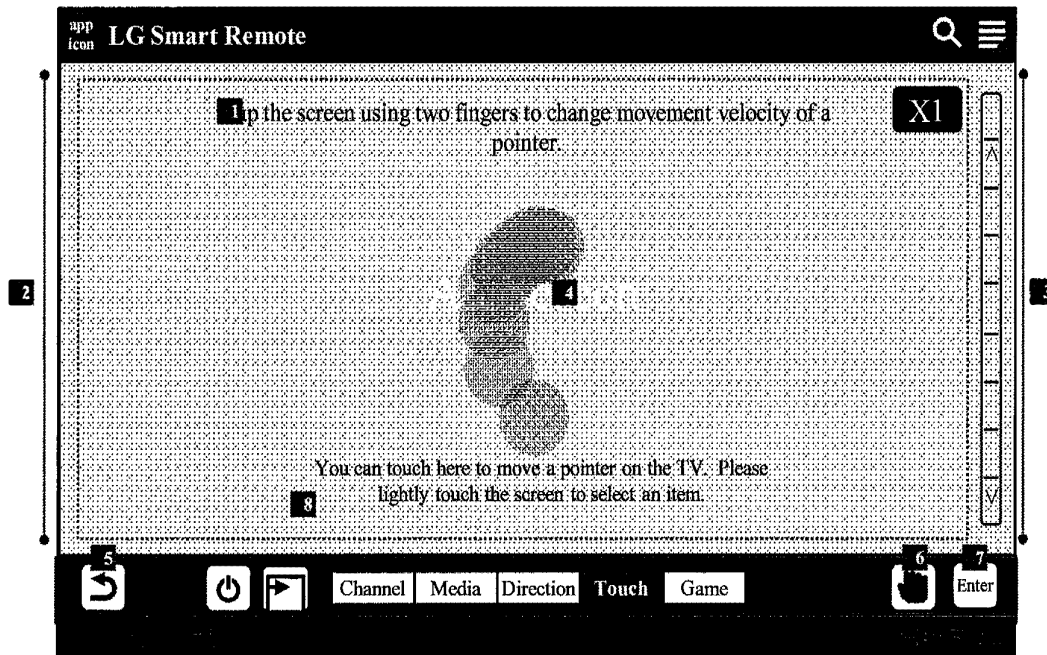
When shaking Phone, touch panel is called and a pointer appears on TV.
Basic call screen at TV Home Dashboard



Area	Description
1. Info.(Info.)	Provide a guide regarding change of pointer velocity-X1,X2,X3
2. Touch pad (Pad)	1. Tap: Click 2. Multi tap: Change movement velocity - $X1 > X2 > X3$ 3. Double tap of left, right, upper, and lower ends of screen: Move to left, right, upper, and lower ends of TV screen 4. Drag / flick: Move pointer * When press is maintained at the end of Phone screen during drag, mouse pointer moves in the drag direction.
2-1. Wheel area	The same as wheel manipulation of MRCU
3. feedback	Provide an afterimage effect according to touch status * Provided only for a pointer mode
4. Drag mode button (toggle)	Change drag / pointer mode <Pointer mode state> <Drag mode state>   * Drag mode: Press state is the same as press of Enter key of MRCU
5. OK button	Select a region at which pointer is positioned The same as Enter key of MRCU
6. Back button	The same as Previous key of MRCU
7. Help	Provide a Touch pad help - Pointer mode: You can touch here to move a pointer on the TV. Please lightly touch the screen to select an item. - Drag mode: You can move a pointer on the TV to drag an item.

4.4. Remote Panel > Touch

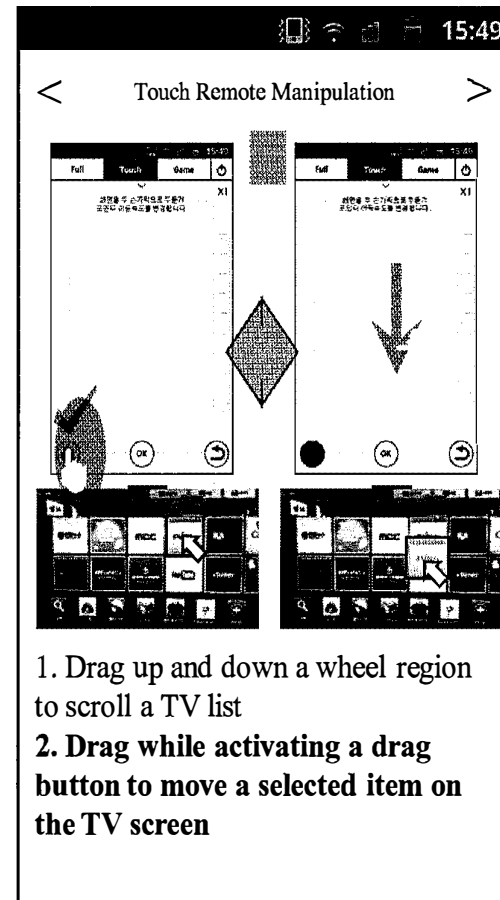
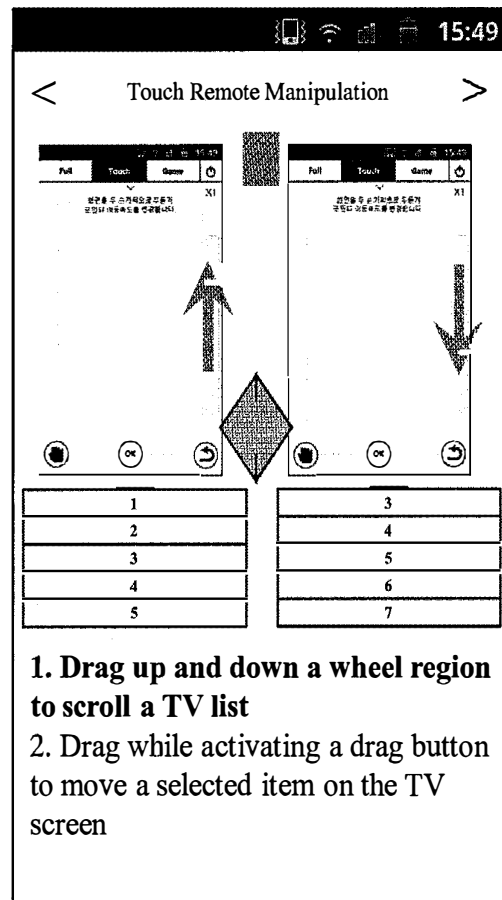
Automatic call screen appearing when accessing TV Home Dashboard by remote manipulation
When shaking Pad, prompt call of touch remote is possible (TV: call a pointer)



Area	Description
1. Info.(Info.)	Provide a guide regarding change of pointer velocity- X1,X2,X3
2. Touch pad (Pad)	1. Tap: Click 2. Multi tap: Change movement velocity - X1 > X2 > X3 3. Double tap of left, right, upper, and lower ends of screen: Move to left, right, upper, and lower ends of TV screen 4. Drag / flick: Move a pointer * When press is maintained at the end of Tablet screen during drag, mouse pointer moves in the drag direction.
3. Wheel area	The same as wheel manipulation of MRCU
4. Feedback	Provide an afterimage effect according to touch status * Provided only for a pointer mode
5. Back button	The same as Previous key of MRCU
6. Drag mode button (toggle)	Change drag / pointer mode <Pointer mode state> <Drag mode state>   * Drag mode: the same as press of Enter key of MRCU
7. OK button	The same as Enter key of MRCU
8. Help	Provide a Touch pad help - Pointer mode: You can touch here to move a pointer on the TV. Please lightly touch the screen to select an item. - Drag mode: You can move a pointer on the TV to drag an item.

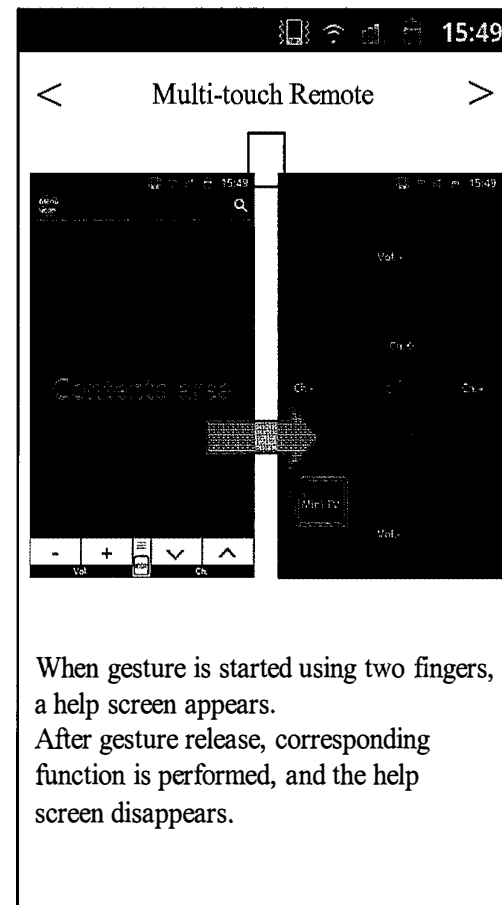
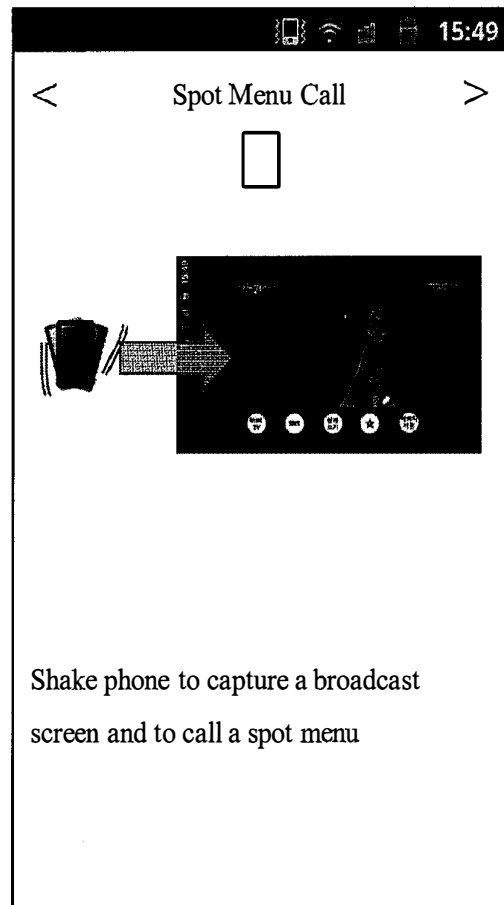
5.6. Setting > Guide (2)

| Screen appearing when selecting a Help tab



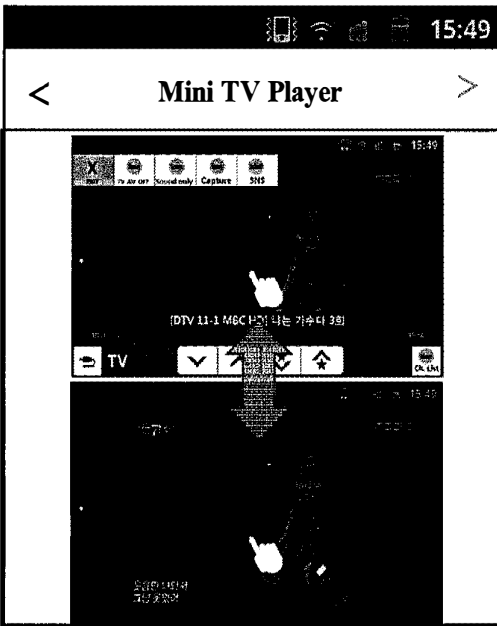
5.6. Setting > Guide (3)

| Screen appearing when selecting a Help tab



5.6. Setting > Guide (3)

| Screen appearing when selecting a Help tab

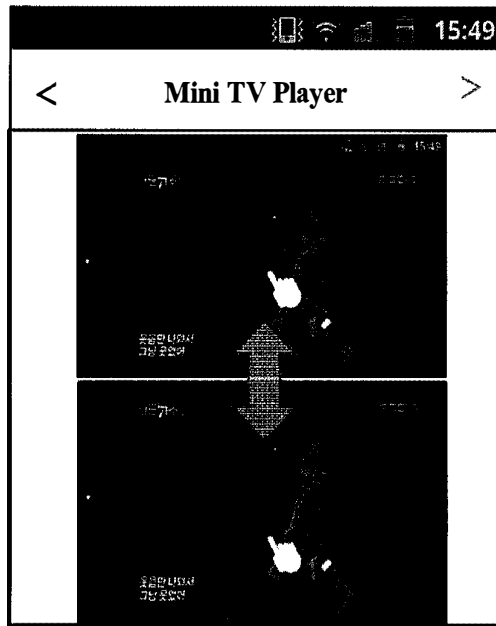


1. If you touch a screen once, a manipulation button region appears or disappears.

2. If you rapidly touch the screen twice, an aspect ratio is changed.

3. If you drag down (right) on the screen, change to a higher channel is performed, and if you drag up (left) on the screen, change to a lower channel is performed.

4. If you touch the screen once using two fingers, volume is muted or unmuted.

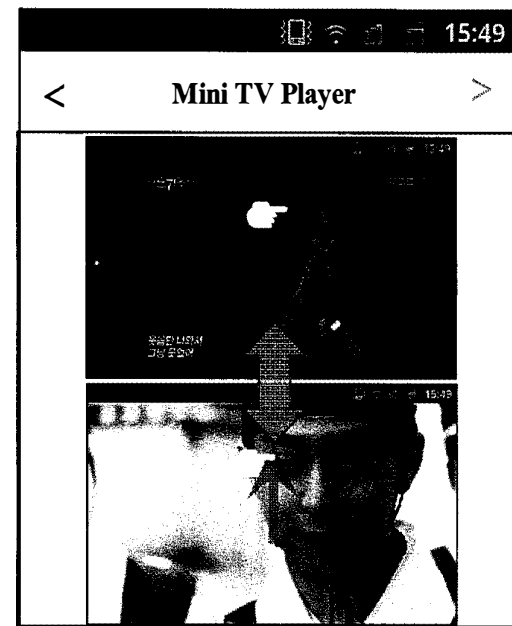


1. If you touch a screen once, a manipulation button region appears or disappears.

2. If you rapidly touch the screen twice, an aspect ratio is changed.

3. If you drag down (right) on the screen, change to a higher channel is performed, and if you drag up (left) on the screen, change to a lower channel is performed.

4. If you touch the screen once using two fingers, volume is muted or unmuted.



1. If you touch a screen once, a manipulation button region appears or disappears.

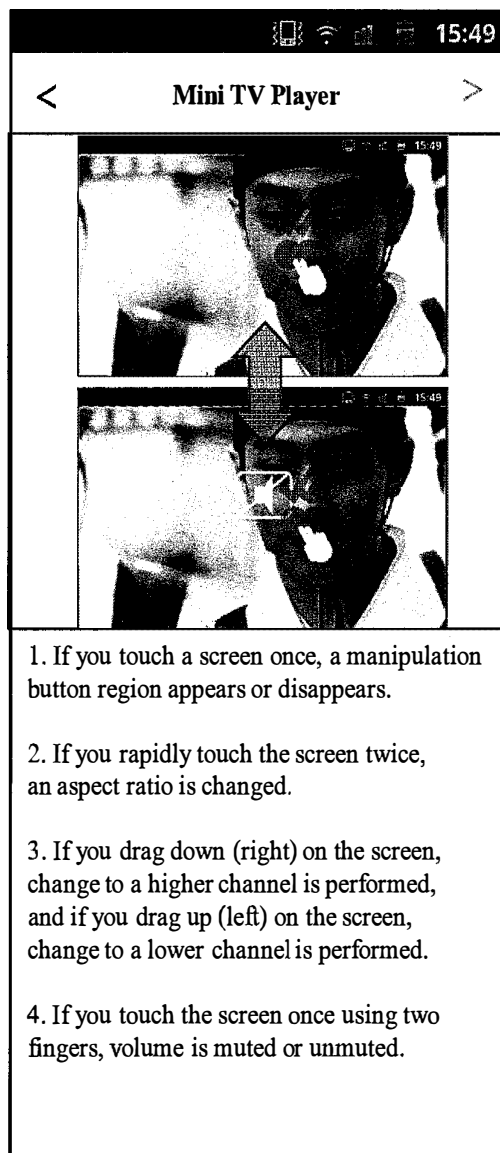
2. If you rapidly touch the screen twice, an aspect ratio is changed.

3. If you drag down (right) on the screen, change to a higher channel is performed, and if you drag up (left) on the screen, change to a lower channel is performed.

4. If you touch the screen once using two fingers, volume is muted or unmuted.

5.6. Setting > Guide (4)

| Screen appearing when selecting a Help tab



7.1. Popup > Enter popup

<Case in which playback of
Mini TV is not possible>

The corresponding function cannot be
used "during USB playback." Mini TV
function can be used during normal TV
watch and during external input use.

Close

<Case in which Mini TV mirroring
is not possible>

RGB input cannot be used. Do
you want to watch Live TV?

Enter

Cancel

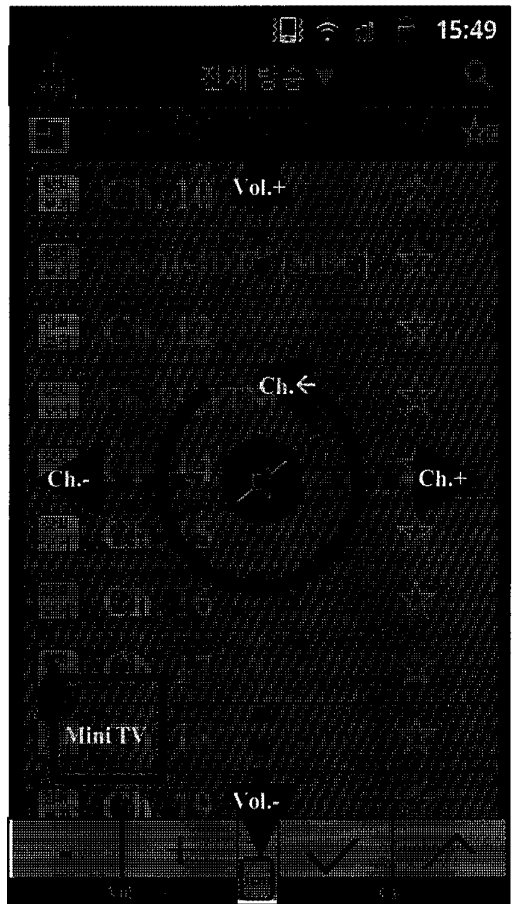
During USB playback
During PIP watch
During 3D watch
During Skype use
During VOD watch
During Internet use
During time machine use

8.1. Gesture input > Prompt control(1)

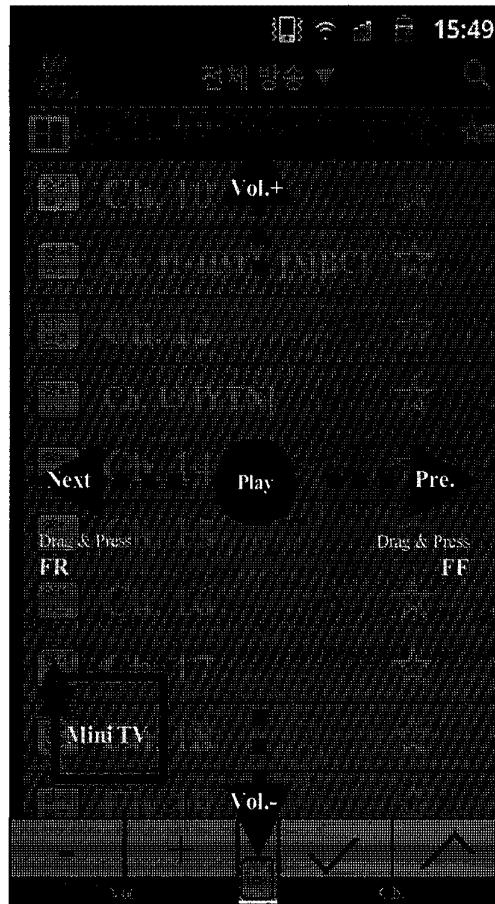
It is possible to manipulate connected devices using a multi-touch gesture in all states except a remote panel state.

At the time when movement starts in a multi-touch state, a screen is dimmed 50% so that a gesture input panel appears on the screen.

<Broadcast watching state>



<Media playback state>



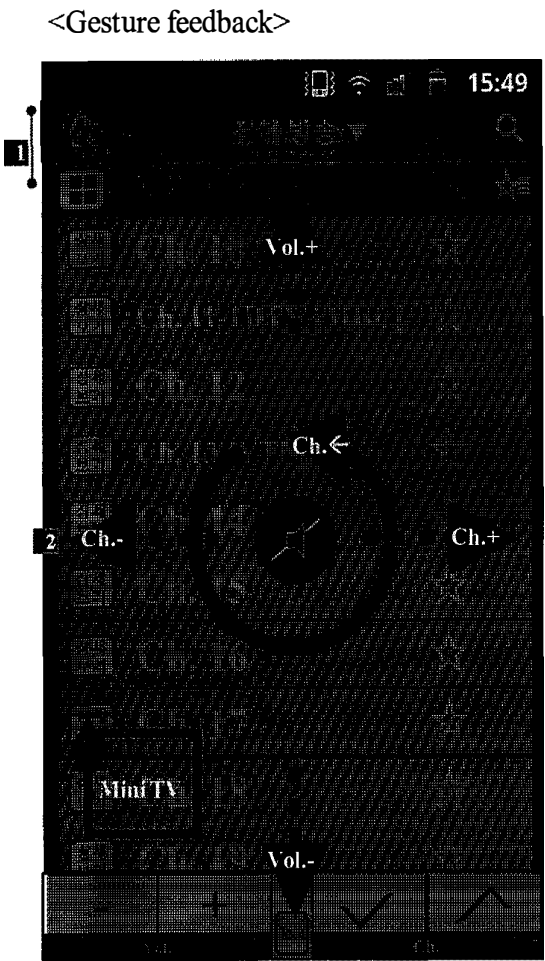
Area	Description
1. Gesture input panel	50% dimmed at the time when a gesture is input - Guide is provided individually for a TV watching state and a media playback state - Display a trace effect of input gesture - Immediately after gesture release, the trace effect disappears, and the corresponding guide image is brightened * Recognition failure: display a passage of 'input failure' - Return to the previous screen 1 second after gesture release
1-1. Common	1. Volume + : Drag up & press (+ based on distance, continuous function is performed when pressed) / flick (one step +) 2. Volume - : Drag down (+ based on distance, continuous function is performed when pressed) / flick (one step -)
1-2. TV play	1. Channel + : Drag right & press (continuous function is performed when pressed) / flick (one step +) 2. Channel - : Drag left & press (continuous function is performed when pressed) / flick (one step -) 3. Volume mute / unmute: tap 4. Previous channel: draw a circle in a counterclockwise direction 5. Execution of Mini TV: draw a quadrangle
1-3. Media Contents play	1. Next item : Flick left 2. Previous item : Flick right 3. Playback / pause: tap 4. Fast forward: drag & press (movement of 1 minute per second after 1 second pressing) 5. Rewind: drag & press (movement of 1 minute per second after 1 second pressing)

Attorney Docket No. UA12-0001

Section 3

8.1. Gesture input > Prompt control(2)

A feedback with respect to a command input at the time when a function is performed using a gesture is provided for 1 second.



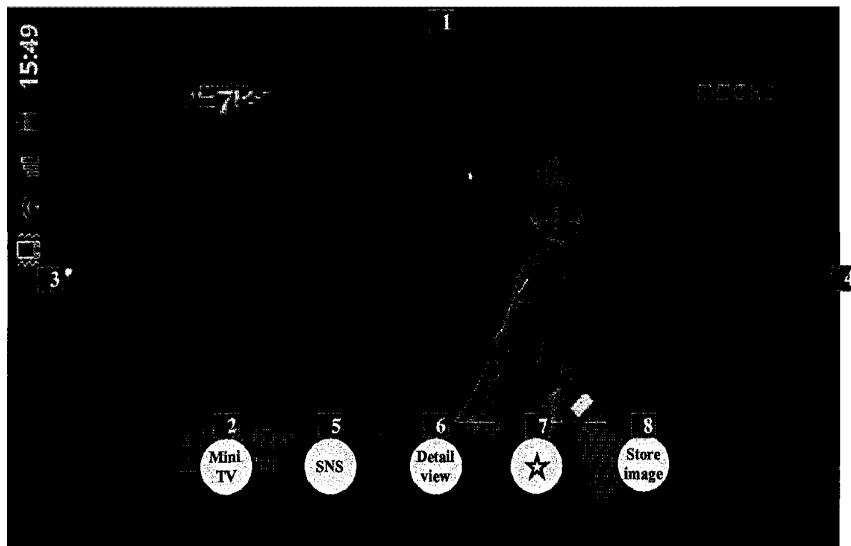
Area	Description						
1. Gesture Info.	Information regarding gesture input status is displayed						
	<Channel + /-. Previous channel> <table><tr><td>Previous channel number</td><td>Current channel number</td><td>Next channel number</td></tr><tr><td>Program title</td><td>Program title</td><td>Program title</td></tr></table>	Previous channel number	Current channel number	Next channel number	Program title	Program title	Program title
	Previous channel number	Current channel number	Next channel number				
	Program title	Program title	Program title				
	<Volume + / ->  100						
<Volume Mute>  Mute							
<Next/Pre> <table><tr><td>Next file name</td><td>Current file name</td><td>Next file name</td></tr></table>	Next file name	Current file name	Next file name				
Next file name	Current file name	Next file name					
2. Button Feedback.	<FR / RR, Play / Pause> * Corresponding icons are displayed above time information,  HH:MM:SS						

8.2. Gesture input > Spot Menu (quick menu)

When a device is snatched during watching of a TV broadcast, the current broadcast screen is captured (successively 5 pieces) and a Quick menu is provided.

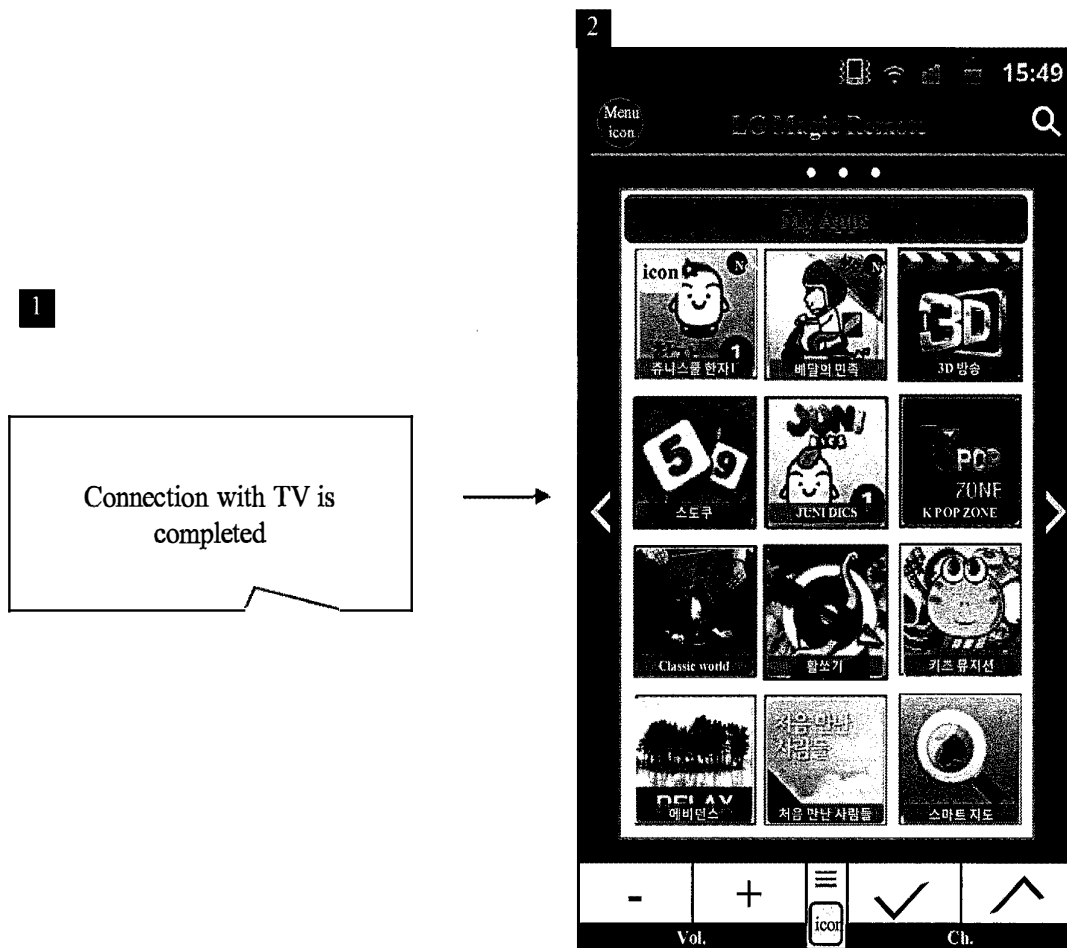
Image display default: third image

Spot menu is fixed in a landscape mode.



Area	Description
1.Contents info	Display a captured image of current broadcast
2. Mini TV	Execute Mini TV
3. Previous button	View previous photo
4. Next button	View next photo
5. SNS Button	Move to an SNS writing screen in a state in which captured image is added
6. Button	Call a detail view popup of the captured channel (Displayed only in a case in which channel information is provided)
7. Favorite channel Button	Register / unregister a captured channel in / from favorite channels (Displayed only in a broadcast watching state)
8. Image save Button	Store a captured image

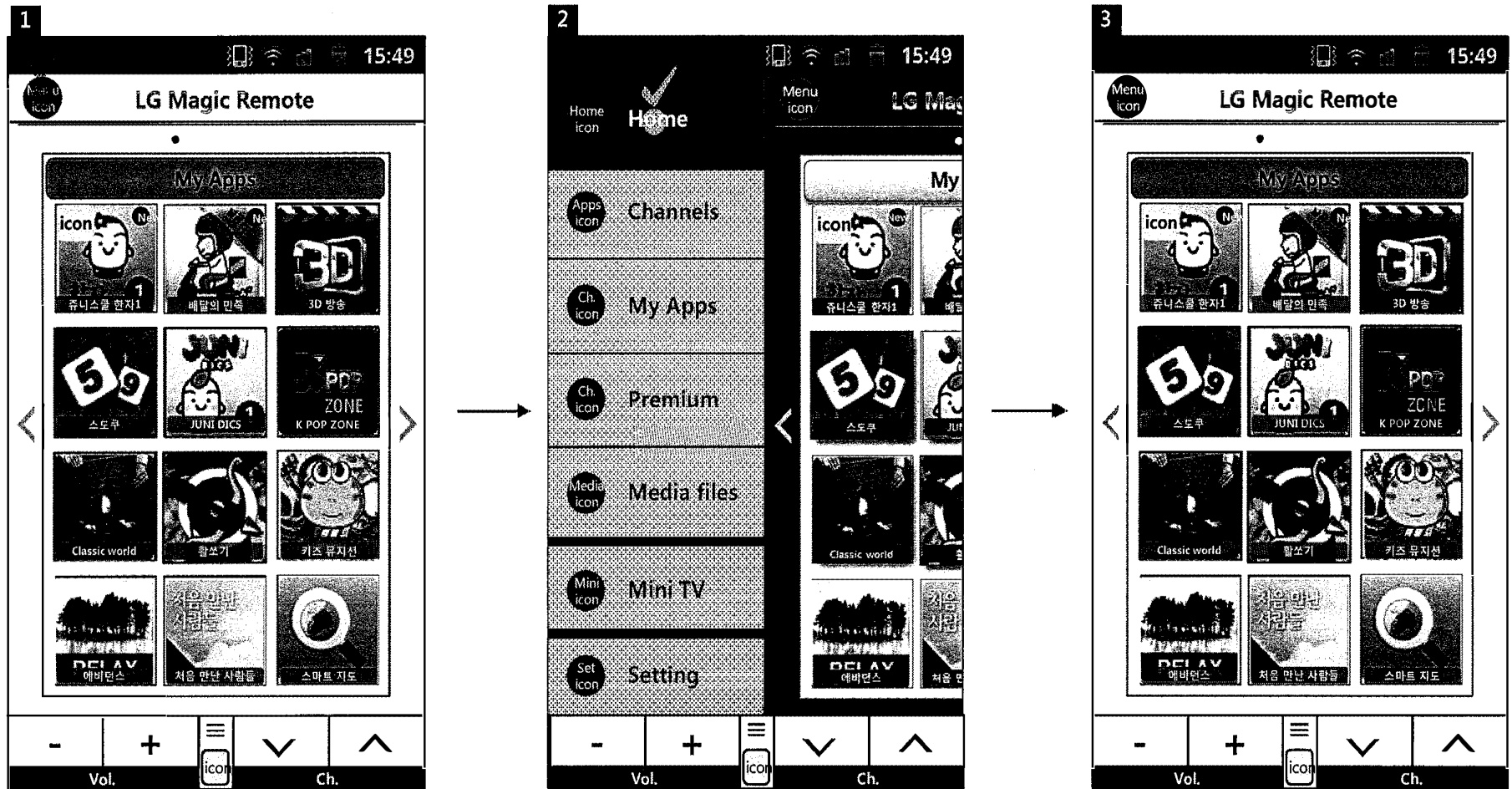
5.1. Home > First execution



Prepared contents are displayed.

- At the time of first execution, contents are displayed in order of name since recent execution log is not present in the app, and the contents are changed based on change of used log.

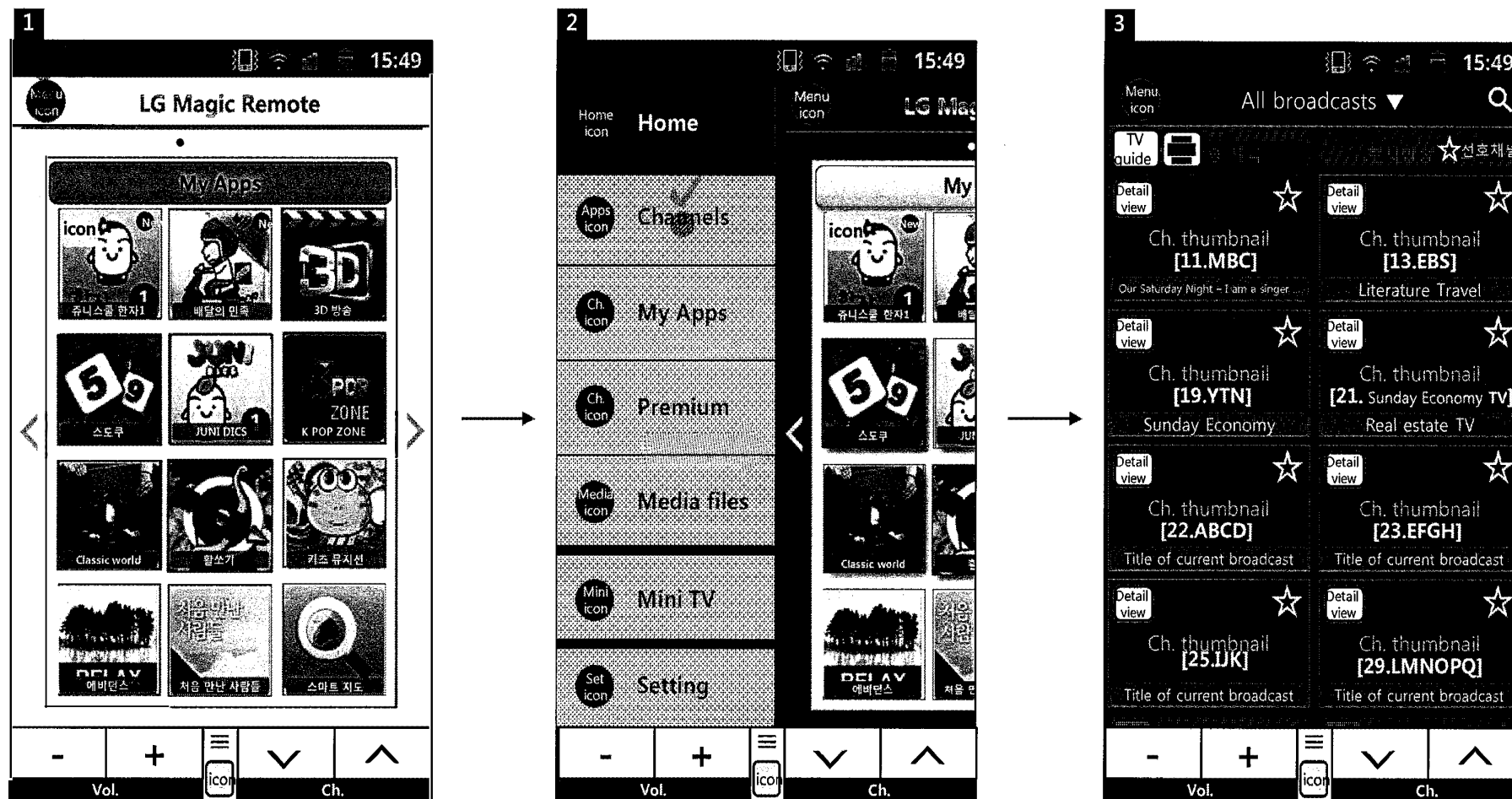
6.1. Menu launcher > Open / Close



A current page title is focused, and a menu launcher is called.
When a screen except the menu launcher is touched, the menu launcher is closed.

The menu launcher is closed, and the previous screen is maintained.

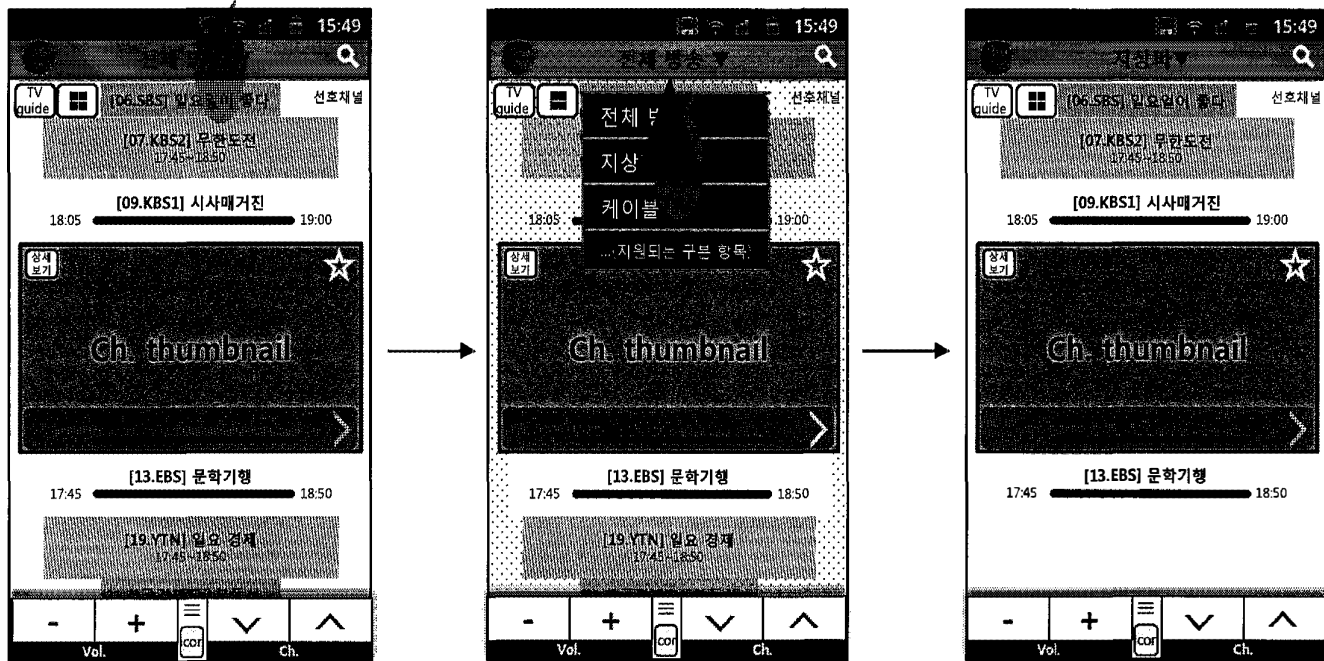
6.2. Menu launcher > Menu selection



A current page title is focused, and a menu launcher is called.

Move to the selected mage.
The channel currently displayed on TV is focused as the first item of the list

1.1.1. TV contents > Channel list > Category selection



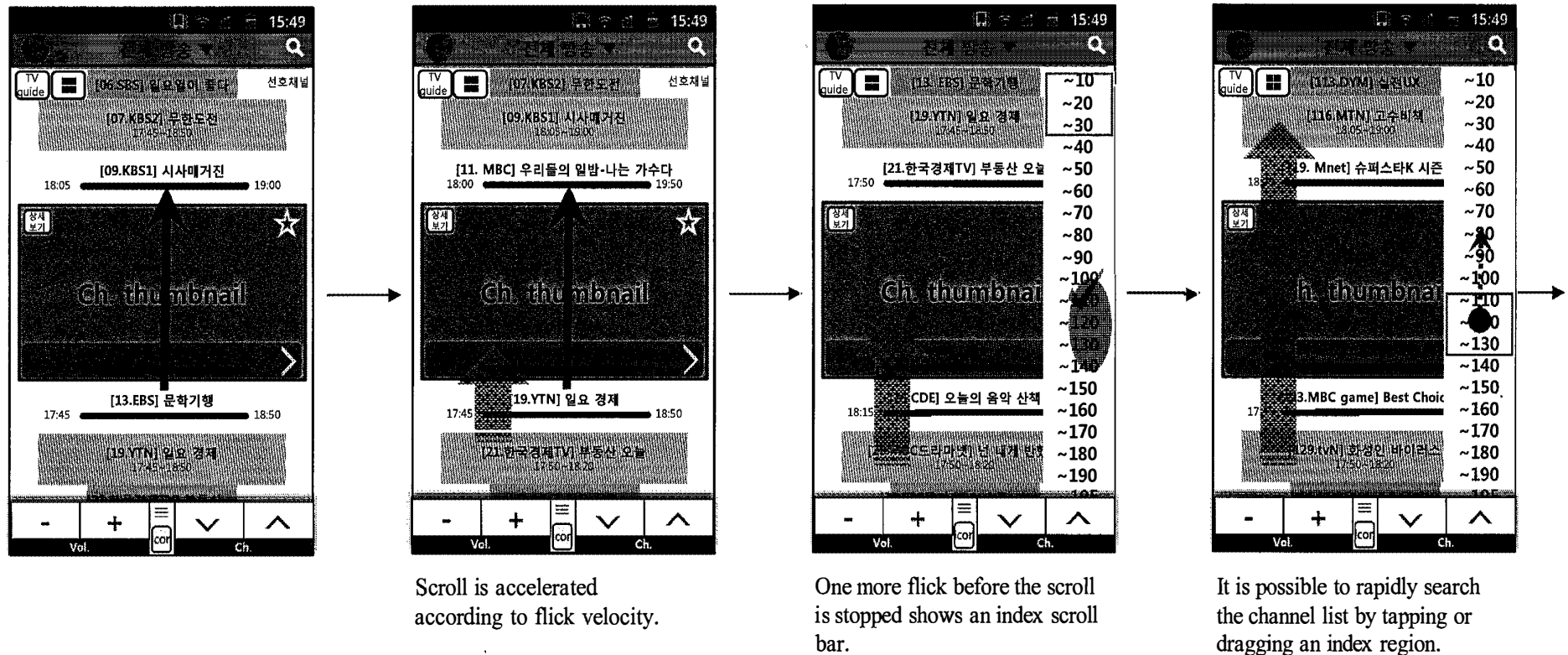
When a channel list is opened,
all channels of all categories are
displayed.

- Basic focus is a currently
watched channel

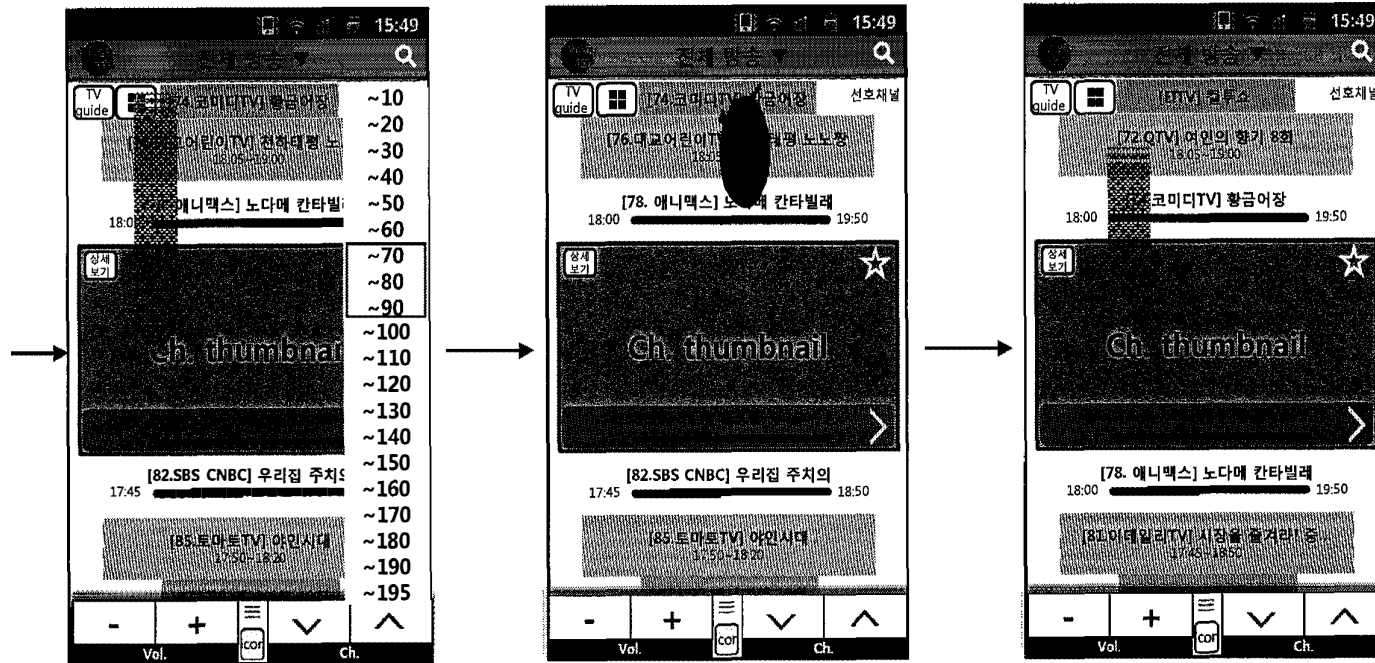
A selected popup is opened.

Filtered according to the selected category

1.1.2. TV contents > Channel list > Channel search (1)



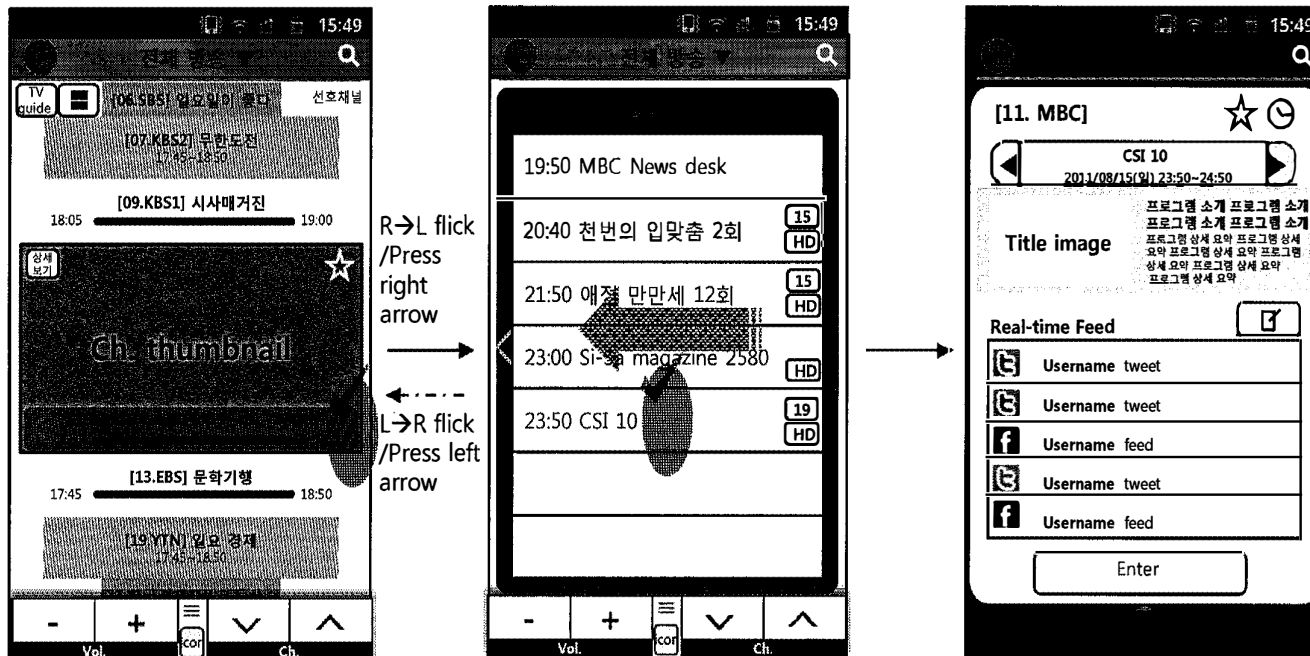
1.1.2. TV contents > Channel list > Channel search (2)



Index scroll automatically disappears 1 second after the scroll is stopped.

Tap the channel item to move to the middle focus position

1.1.3. TV contents > Channel list > View of next program



For a channel in which next program information is provided, next button is activated.

Next program list is displayed.
Only programs for the day are displayed.

Display of detail popup

1.1.4. TV contents > Channel list > View of Favorite channel

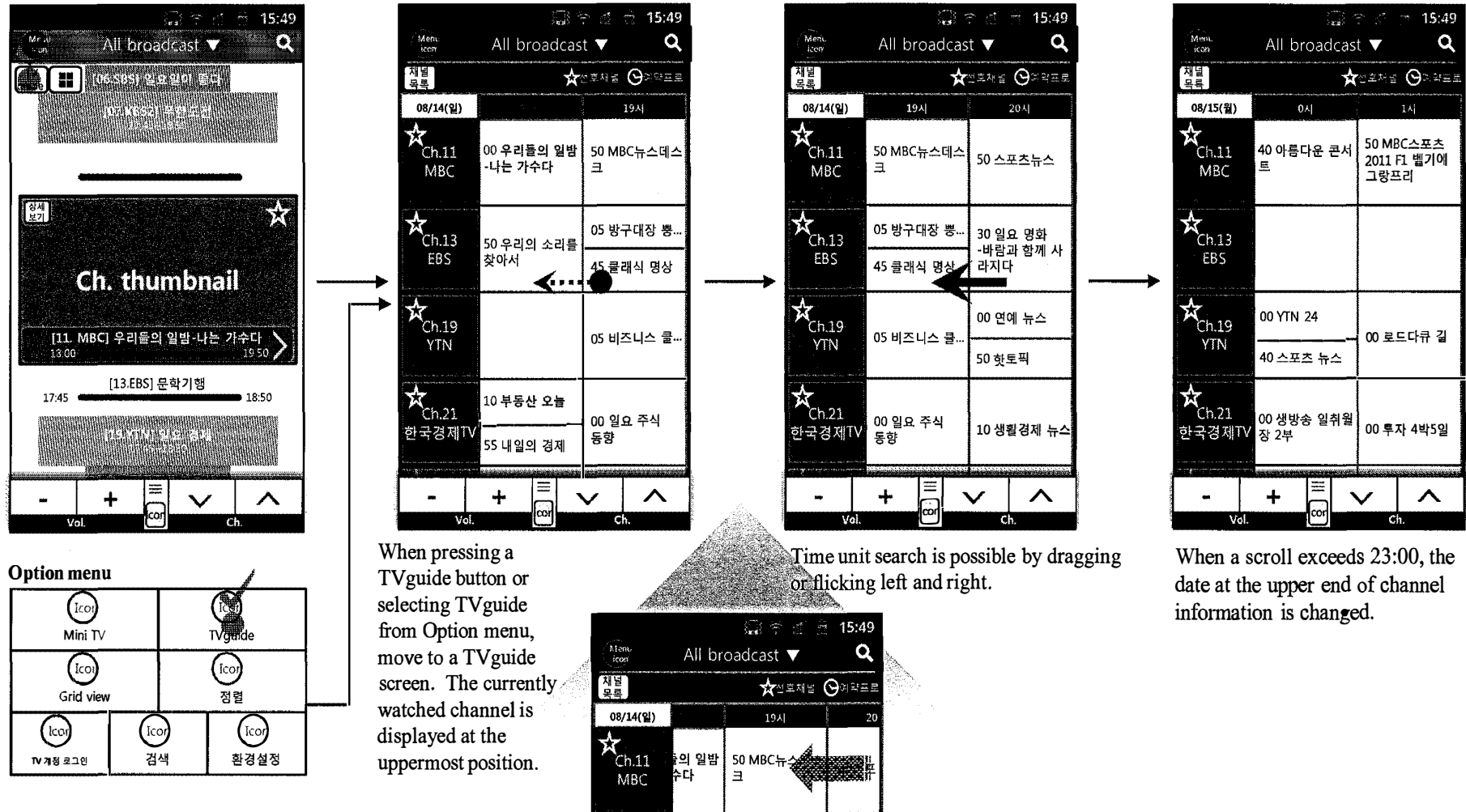


Move to a full channel list screen
The currently watched channel is focused.

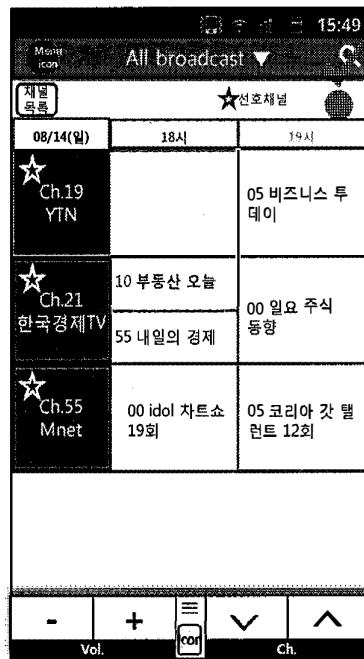
Only the list set as favorite channels is left.
-default focus: Currently watched channel
(* The first item of the favorite channel if the currently watched channel is not a favorite channel)

When the favorite channel is released in a favorite channel list state, the corresponding channel disappears (fade out)

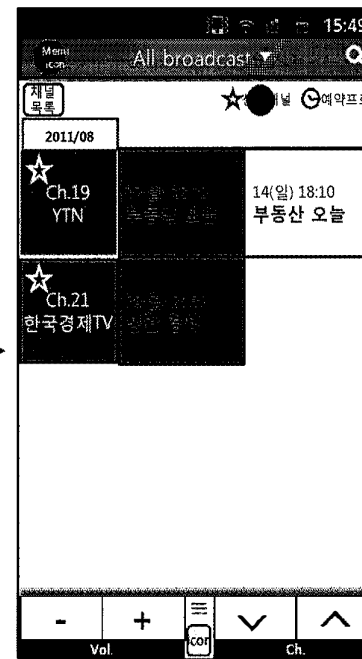
1.2.1. TV contents > TVguide list > Program search



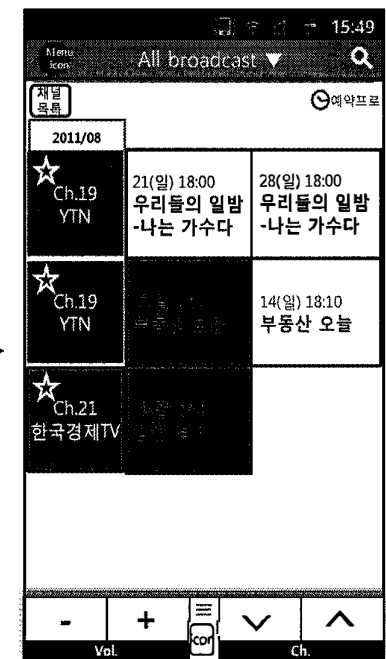
1.2.3. TV contents > TVguide list > View of Favorite channels / Reserved list



Only favorite channels are filtered.

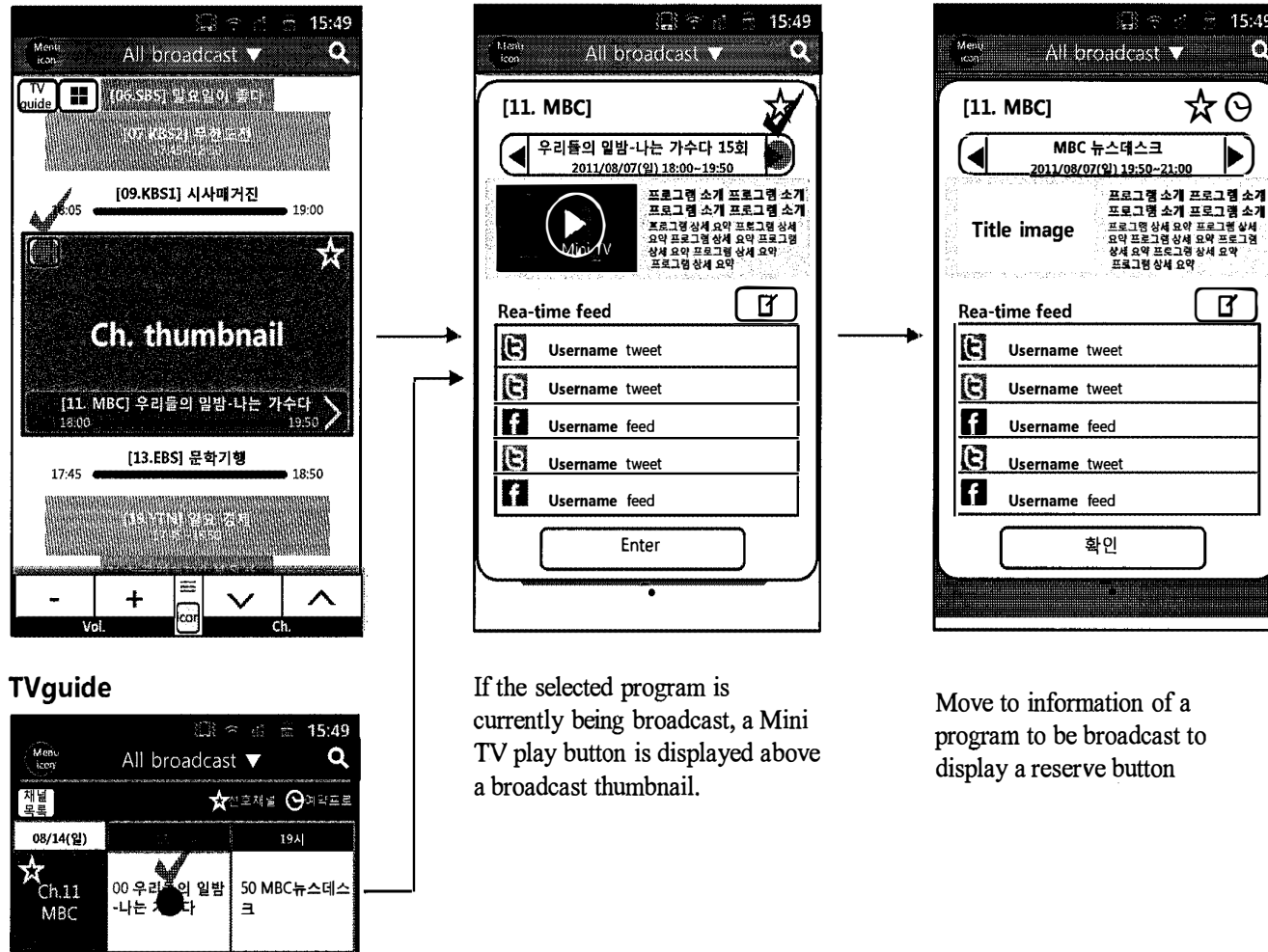


Only a reserved list is filtered
(including reservation-recorded items - marked by different colors)
* Watch reservation is not displayed after the lapse of time.
- A channel having no reservation is not displayed.



When favorite channels are unregistered, reserved items of all channels are displayed.

1.3.1. TV contents > Detail information popup > Program shift

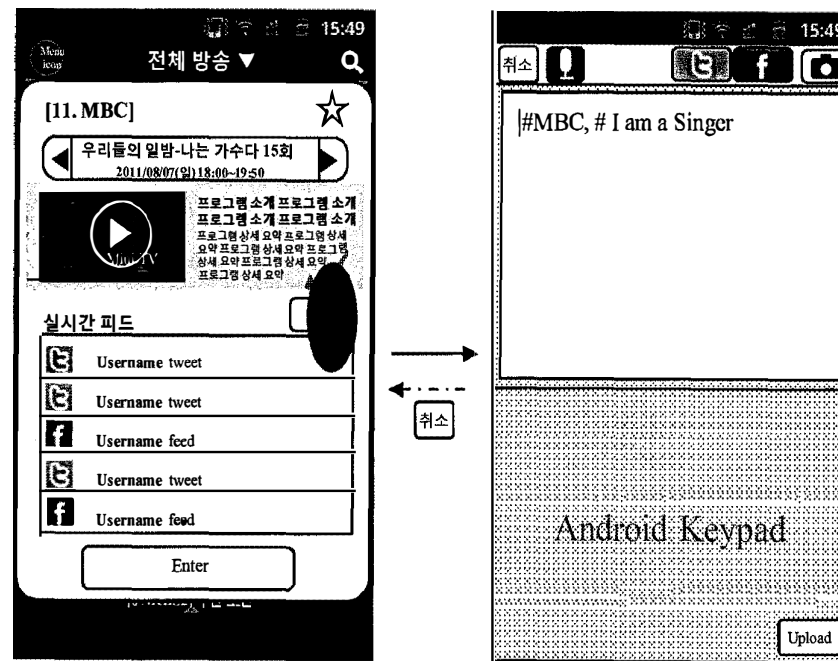


1.3.2. TV contents > Detail information popup > View of SNS



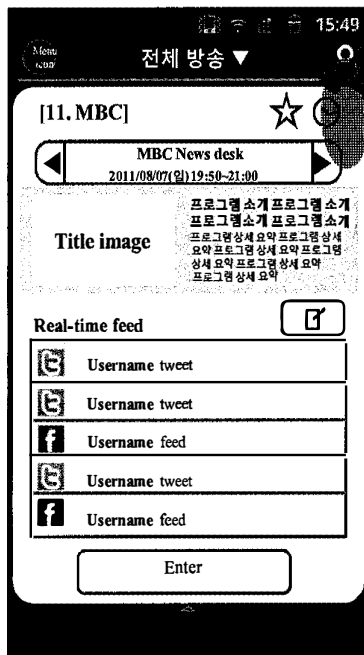
For a progress scenario, see 8.7.1

1.3.3. TV contents > Detail information popup > SNS Writing

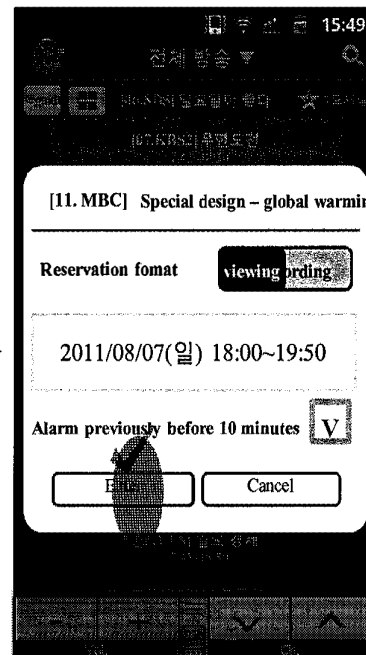


For a progress scenario, see 8.7.1 / 8.7.3

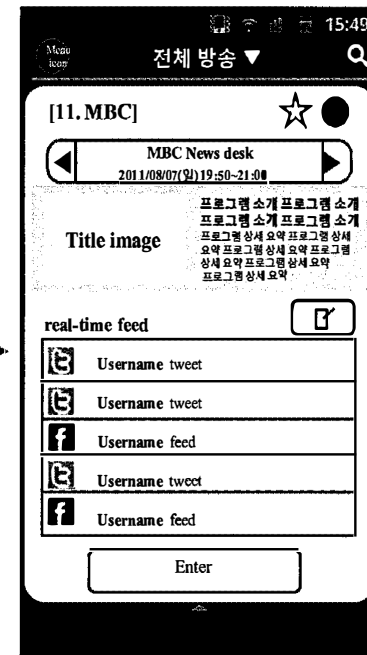
1.4.1. TV contents > Watching / Recording reservation



For information of the currently broadcast program, a reserve button is not displayed.

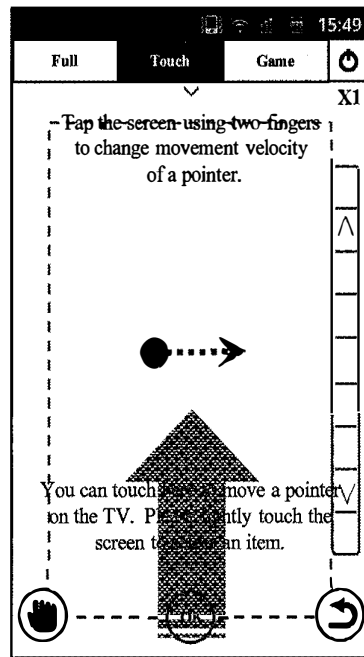


A reservation popup is displayed.
- Reservation mode default:
Watching reservation

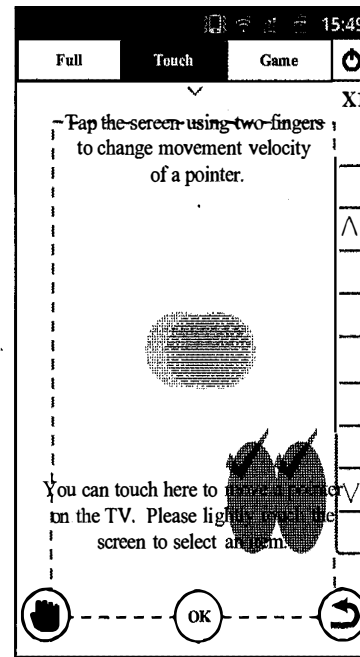


A reserve button is displayed in an On state.
- When a button of the reserved item is pressed, reservation is canceled.

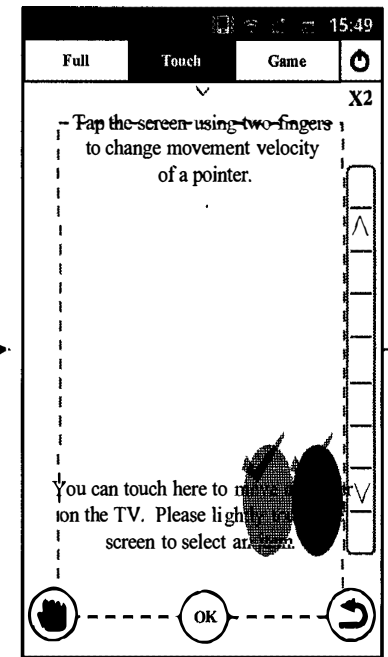
5.1. Remote panel > Touch-pointer mode (1)



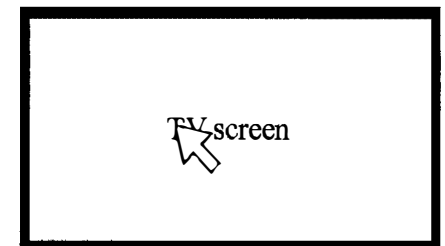
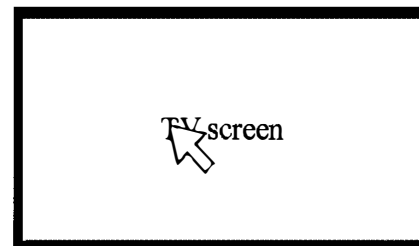
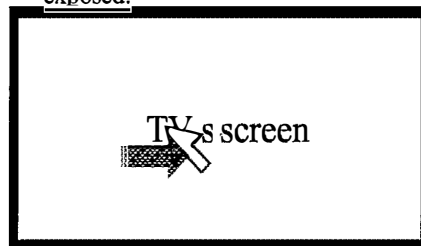
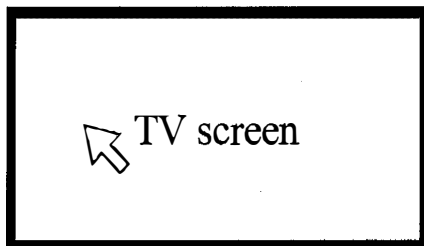
In a case in which a TV state is a home dashboard, a touch pad is immediately exposed.



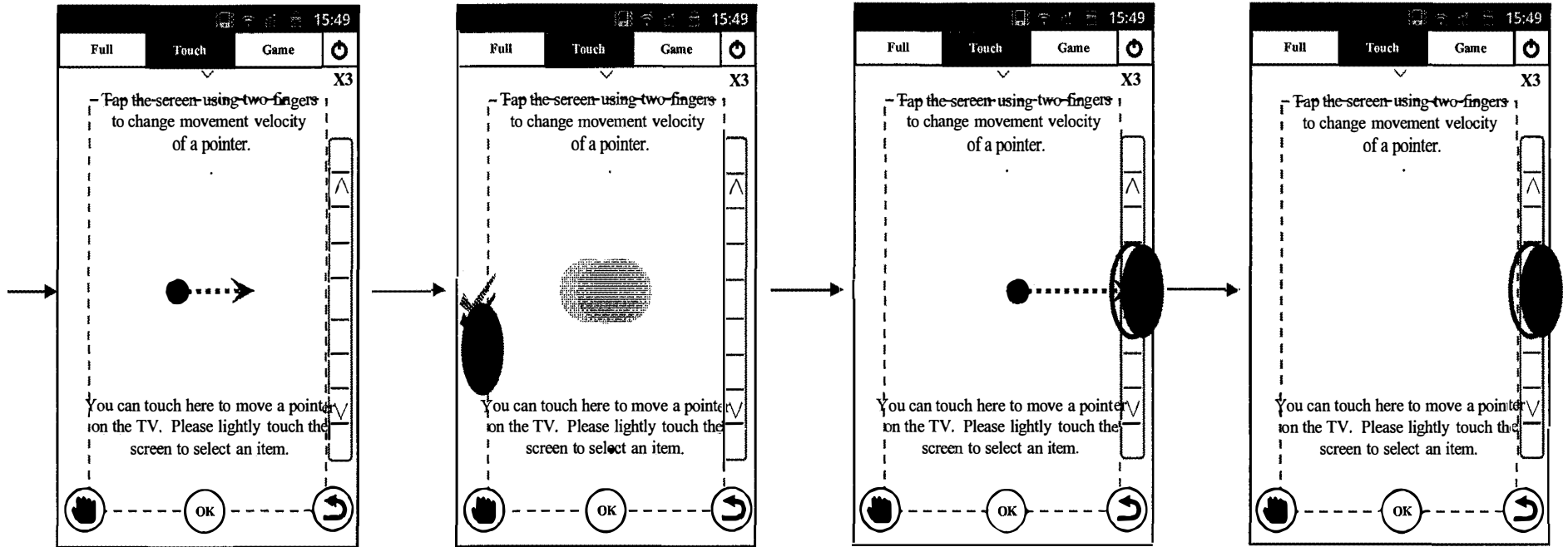
A drag feedback is displayed.



The velocity of the pointer at the upper end is changed to X2.



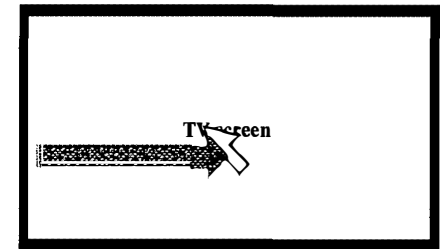
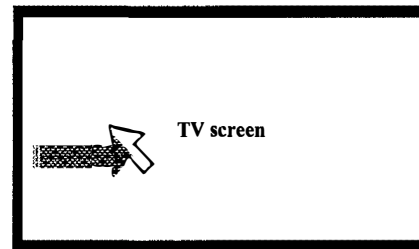
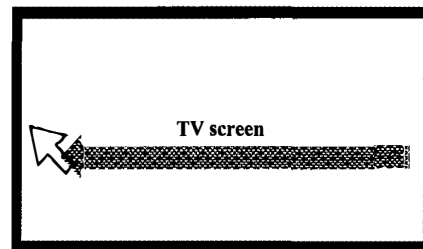
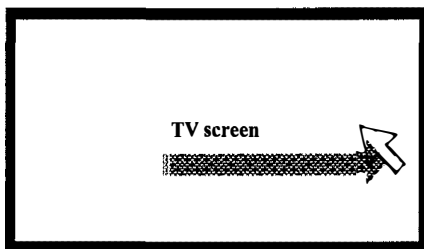
5.1. Remote panel > Touch-pointer mode (2)



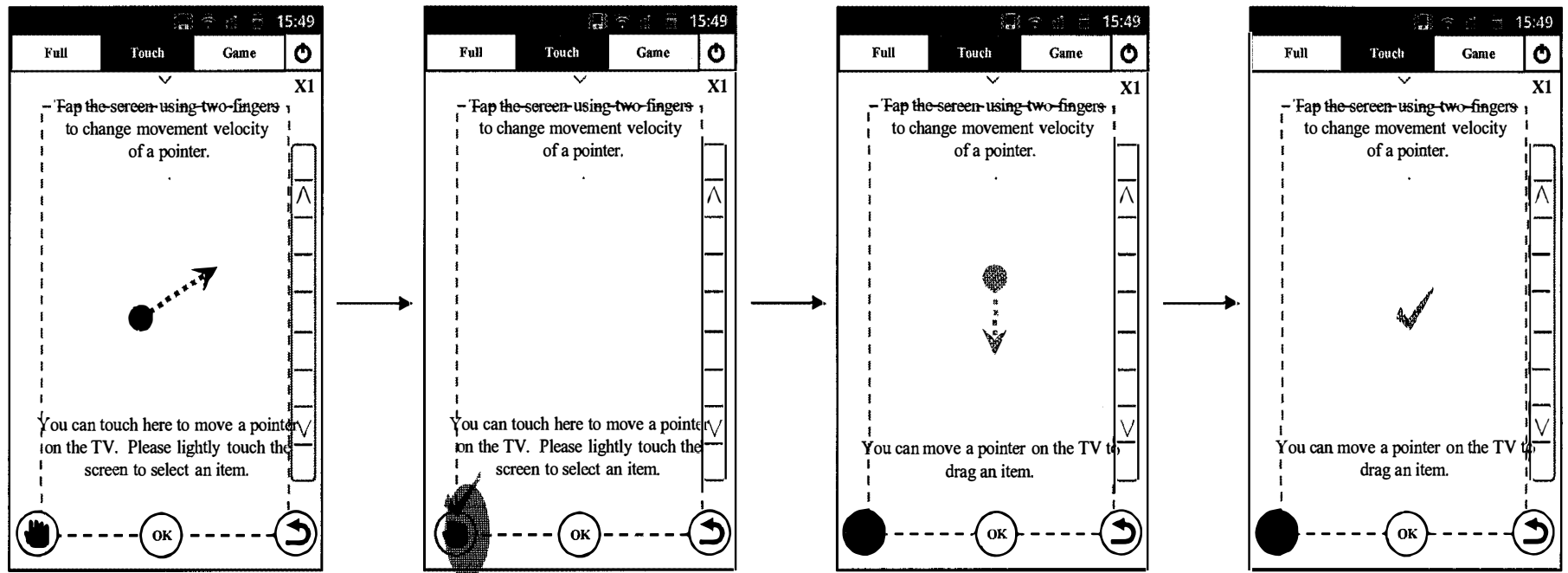
The velocity of the pointer at the upper end is changed to X3. The movement velocity of a TV cursor is changed to X3.

The TV cursor moves to a corner which is double-tapped.

When the corner remains pressed during drag, the TV cursor continues to move in the movement direction of the TV cursor.

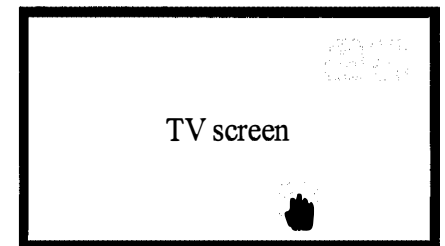
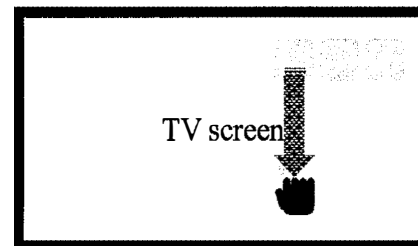
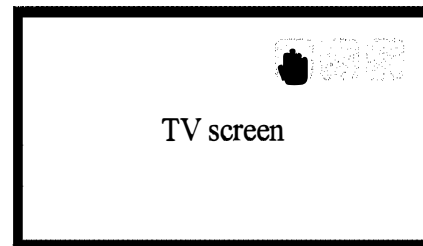
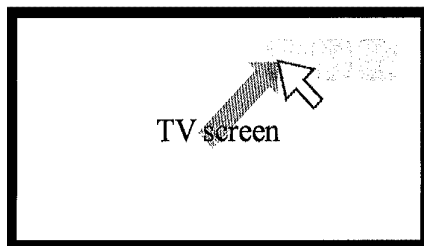


5.2. Remote panel > Touch-drag mode

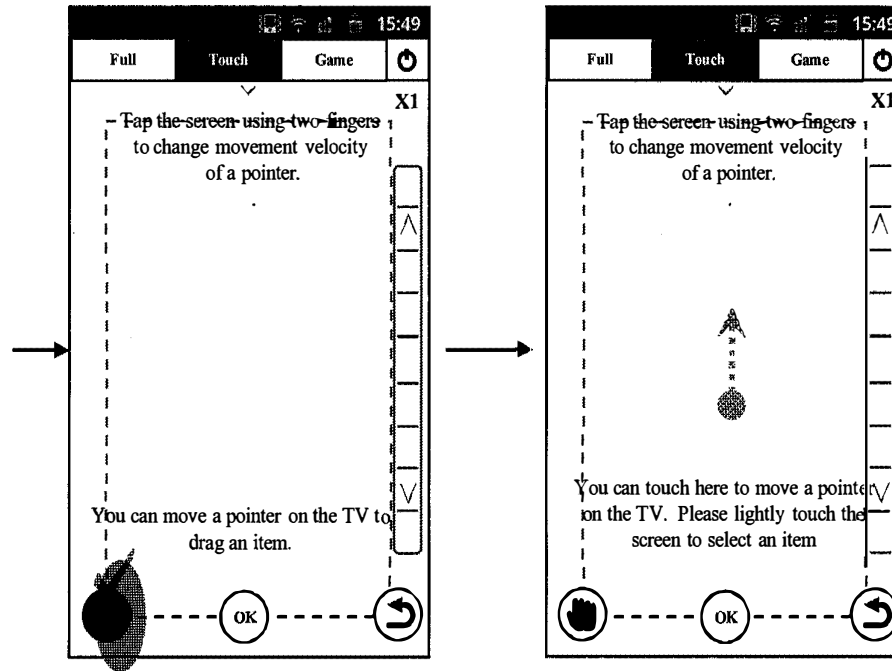


A region at which the pointer is positioned is selected. The selected region (region that can be dragged or scrolled) is moved in the same direction as the drag direction on the phone. A help of the drag mode is displayed.

At the time of release, the selected region is not moved.

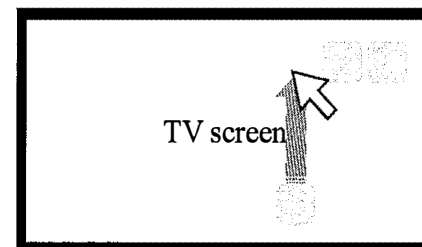
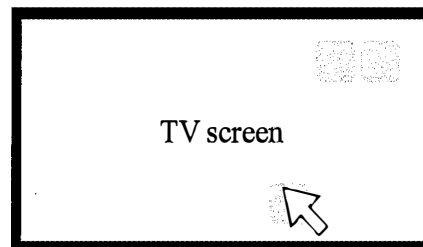


5.2. Remote panel > Touch-drag mode

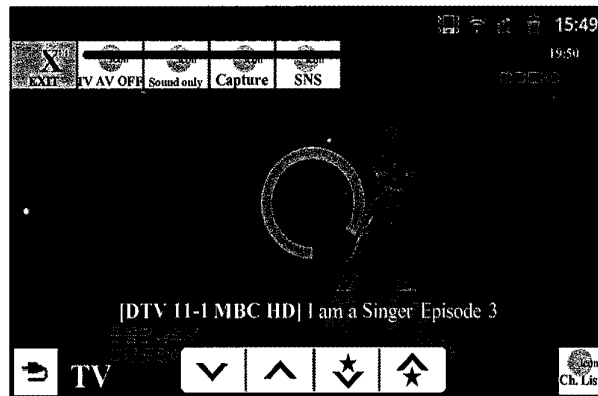
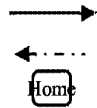


When the drag mode is turned off, a finger pointer is changed into an arrow pointer. The selected region is released and fixed.

The arrow pointer does not select a region but freely moves.



8.1.1. Mini TV > Execution at Home > Execution of current TV video

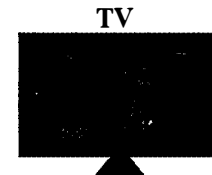
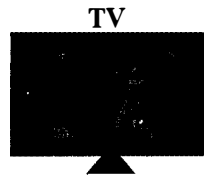


During bringing of a video, a thumbnail is output in an enlarged state, and a loading wheel animation is displayed.

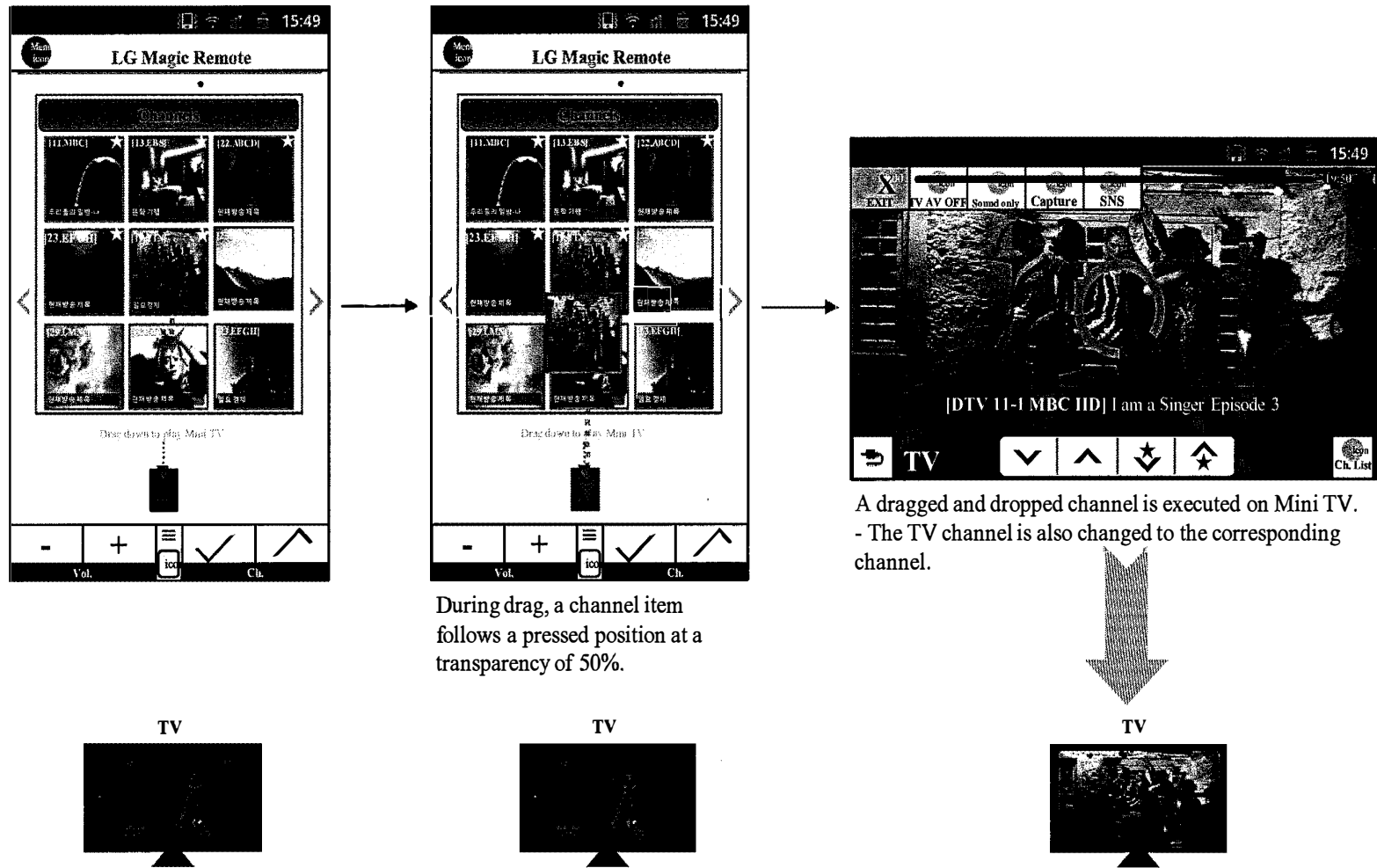
* In a case in which an external input is connected to TV, an external input control panel is displayed.



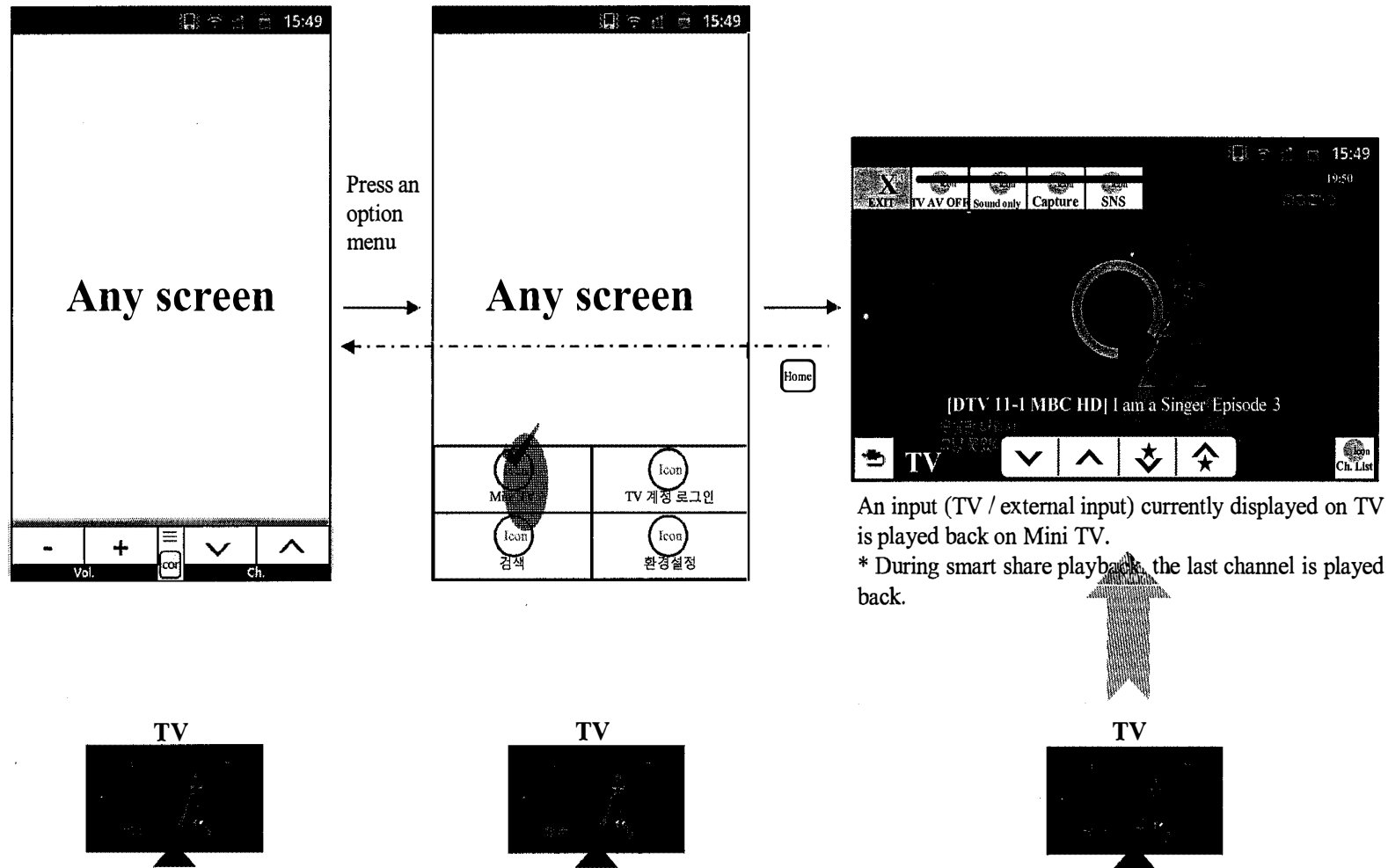
The button and panel disappear after 2 seconds.



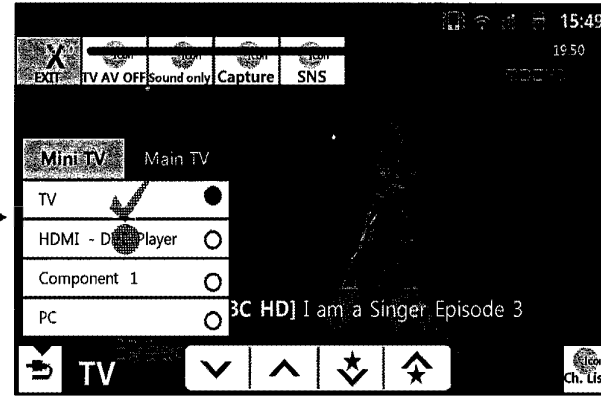
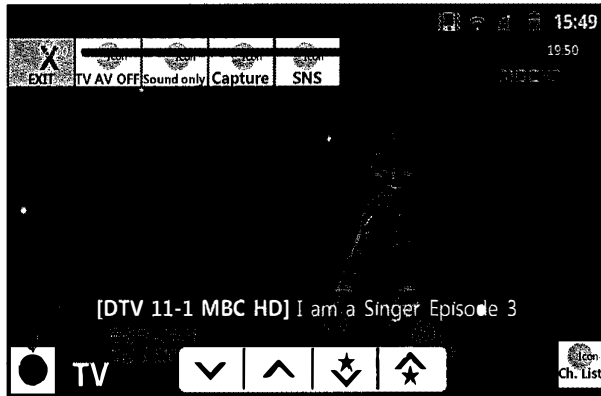
8.1.2. Mini TV > Execution at Home > Execution of selected channel



8.2. Mini TV > Execution at Option menu



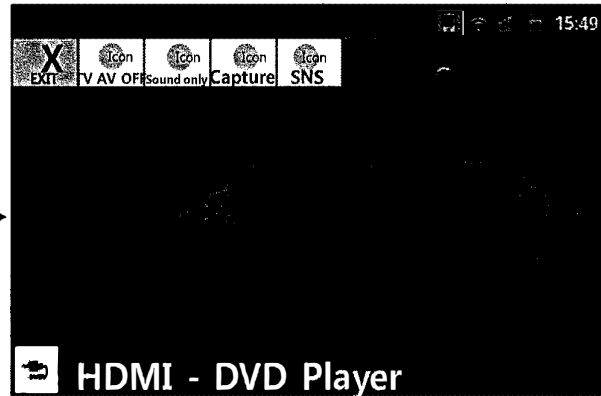
8.3. Mini TV > Change of External input



An external input list connected to TV is displayed.



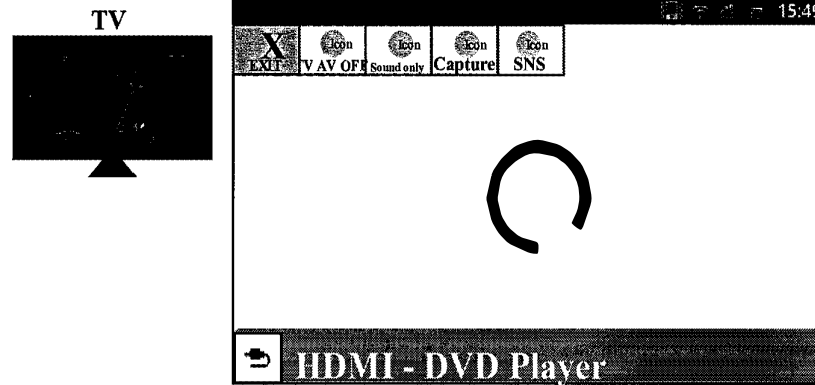
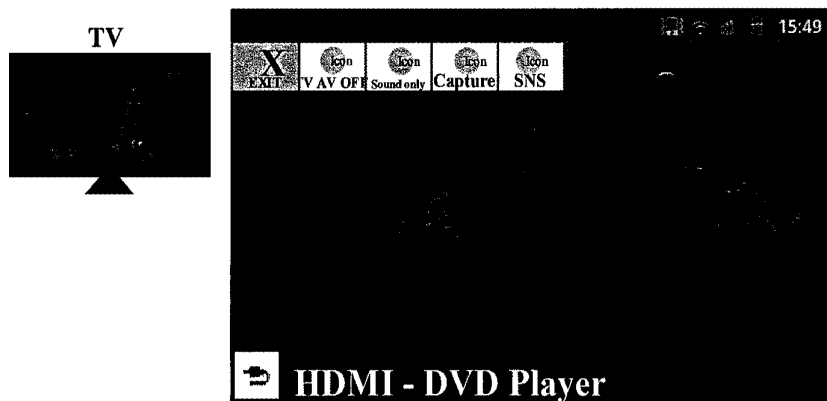
Change to a panel corresponding to the selected input is performed, and a loading wheel is displayed.



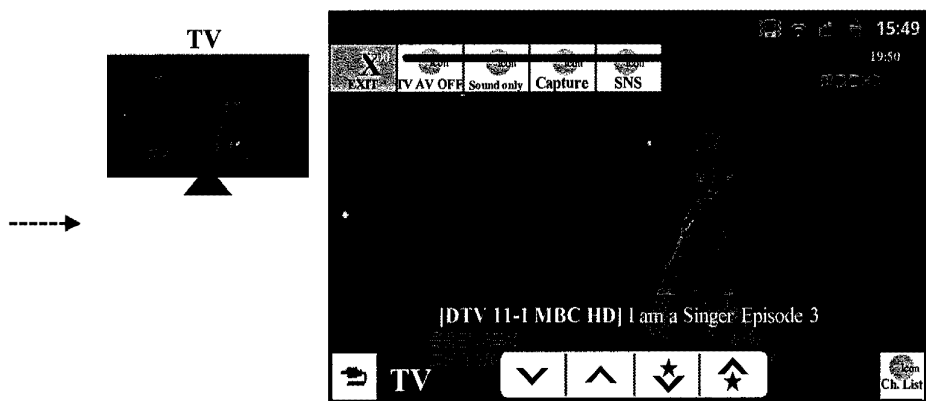
Button and panel automatically disappear 2 seconds after input change.

* A TV input state is maintained.

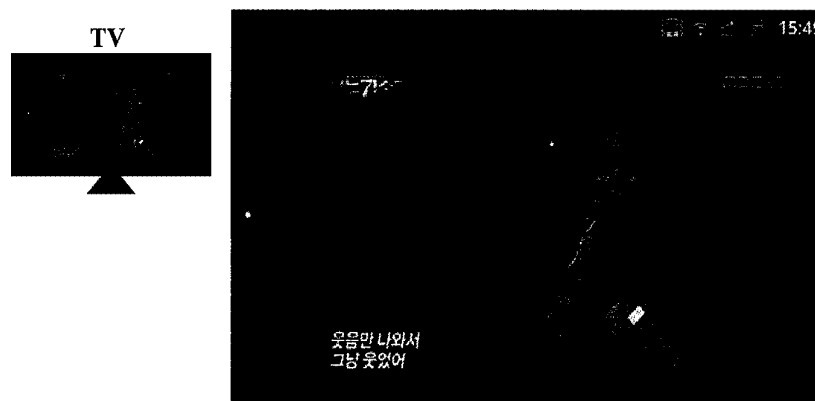
8.4. Mini TV > TV video synchronization (Bringing of a TV input state)



A loading wheel is displayed.

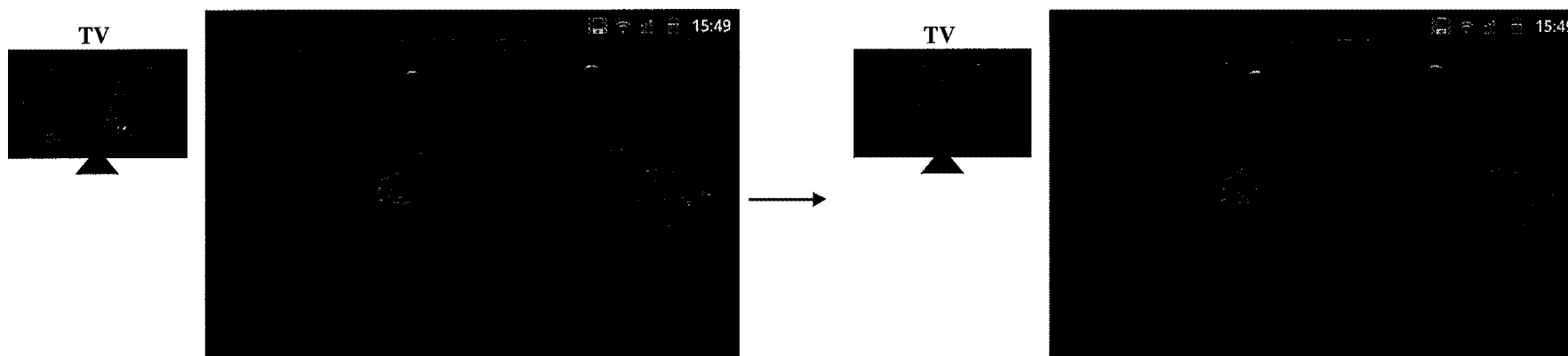


A TV video is brought (channel / input kind)



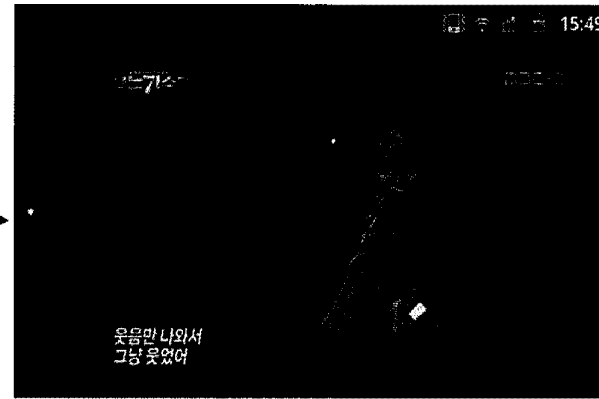
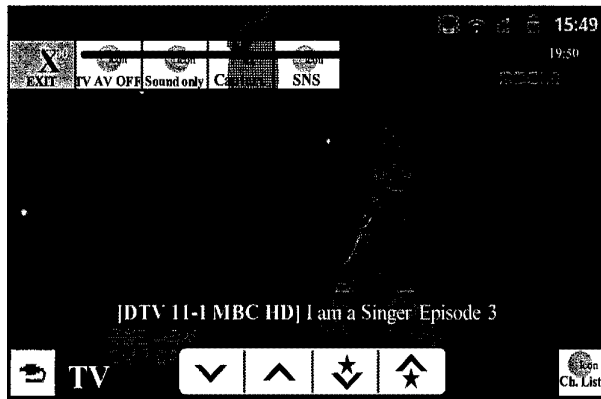
Button and panel automatically disappear after 2 seconds.

8.5. Mini TV > TV video synchronization (Sending of a Mini TV input state)

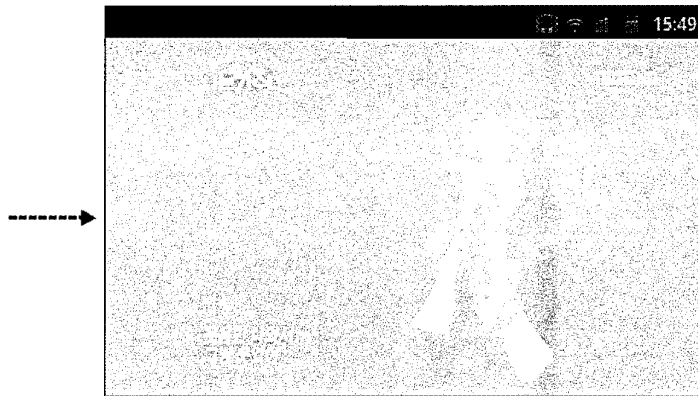


A TV video is synchronized with a phone video (channel / input kind).

8.6. Mini TV > Capture



Button and panel disappear.

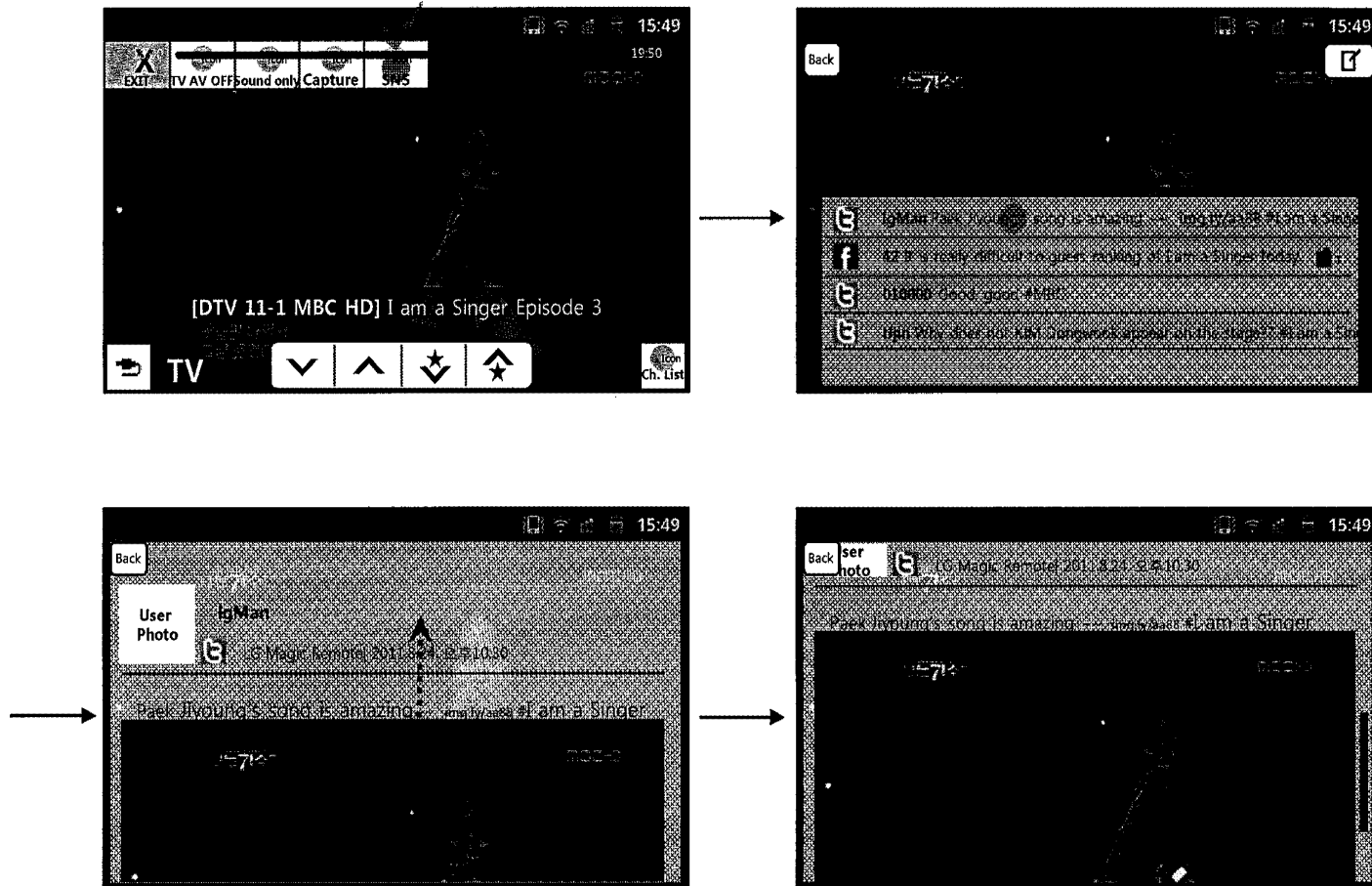


Screen is flashed with a shot sound feedback



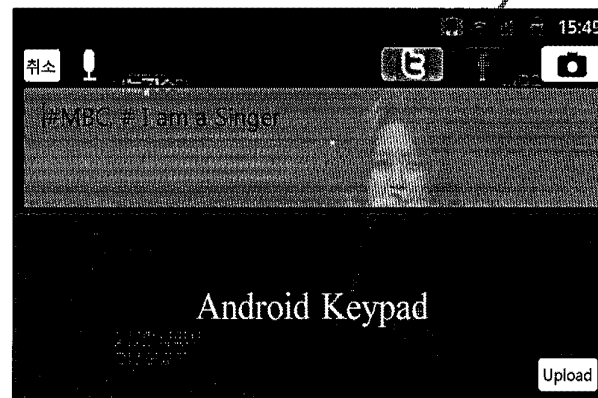
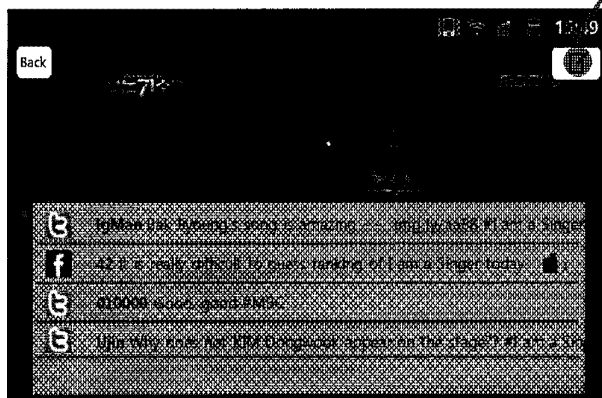
An Enter toast popup is displayed (disappears after N seconds)
A captured image is stored in an Android photo album.

8.7.1. Mini TV > SNS > Detail view

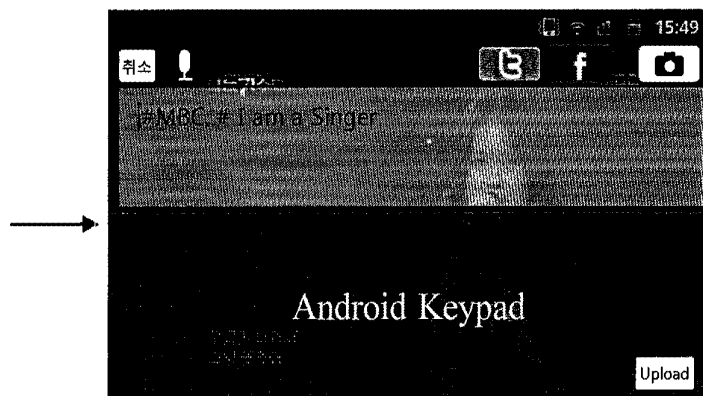


The entire window region is scrolled.

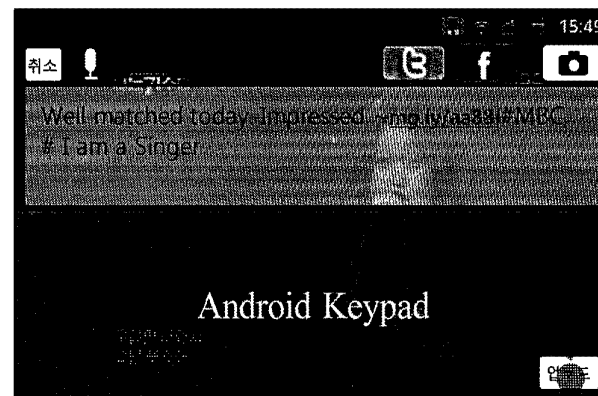
8.7.2. Mini TV > SNS > Writing (1)



- A state in which a hash tag related to the currently watched contents is input
- An SNS item button, to which account has not been registered, is in an OFF state.

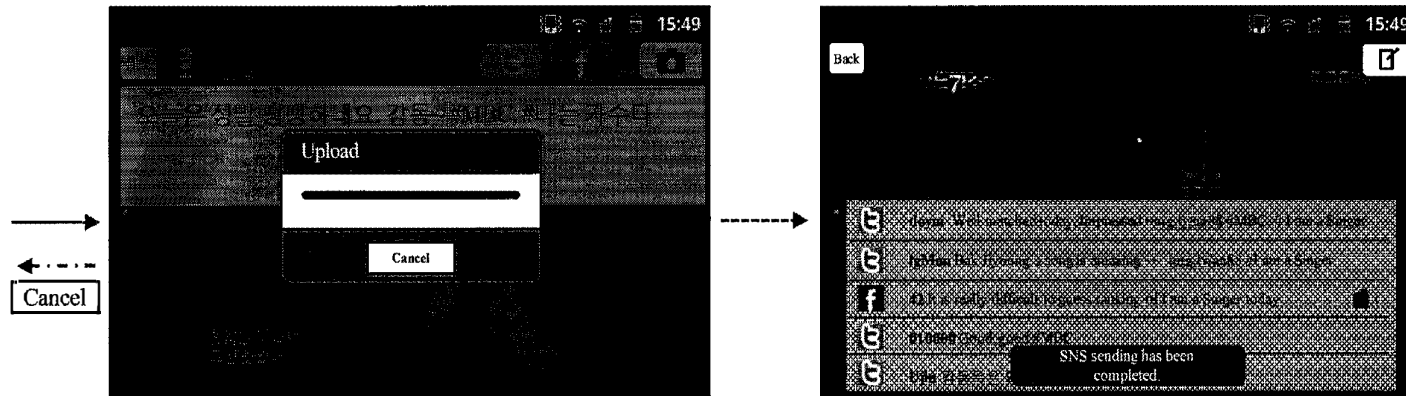


Writing



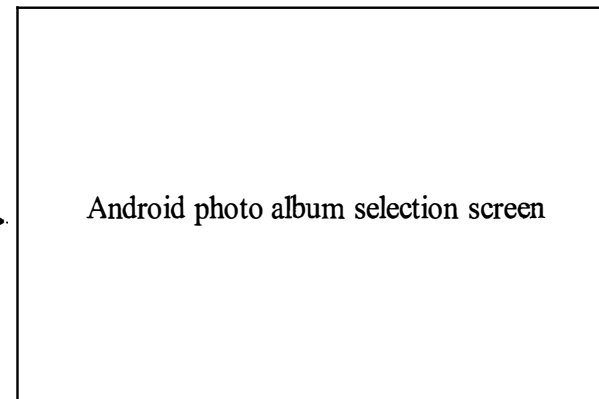
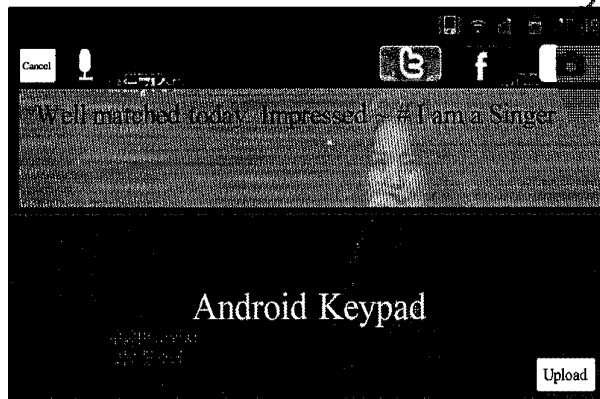
Next page

8.7.2. Mini TV > SNS > Writing (2)



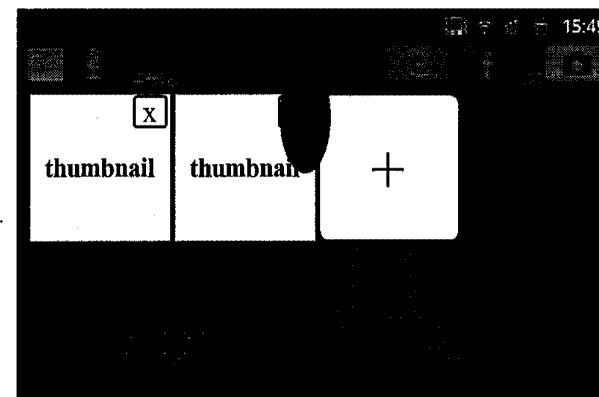
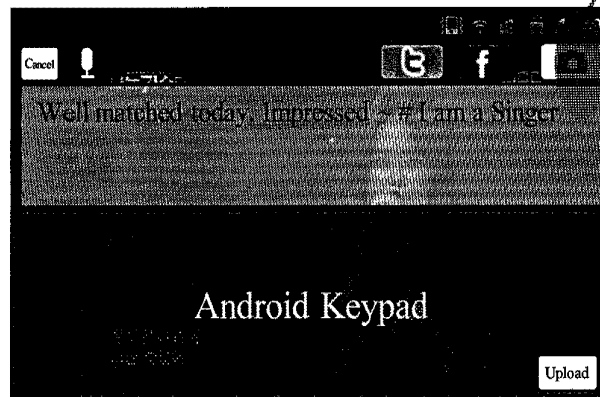
- Return to SNS screen
- A toast popup is displayed (disappears after N seconds)
- The written text is updated and displayed.

8.7.3. Mini TV > SNS > Photo addition (1)

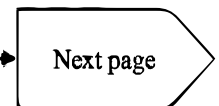


- An android photo album selection mode is displayed.

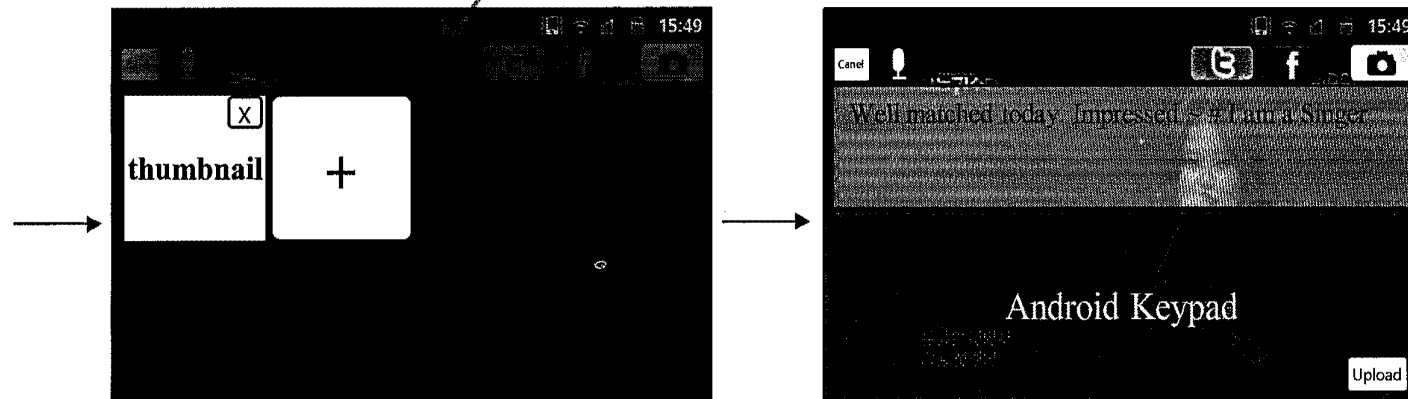
Photo
selection



- In a case in which there are added photos, a photo list window is displayed.

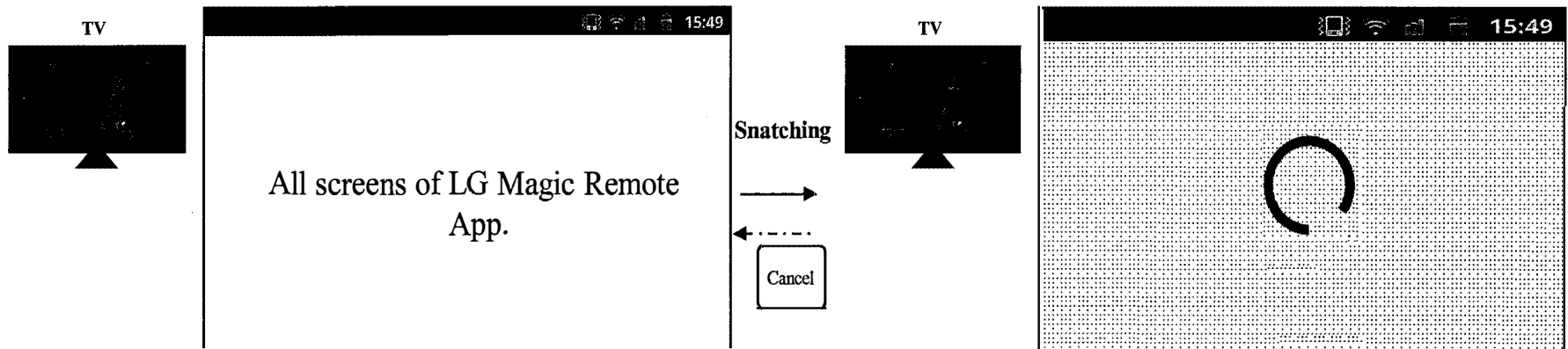


8.7.3. Mini TV > SNS > Photo addition (2)



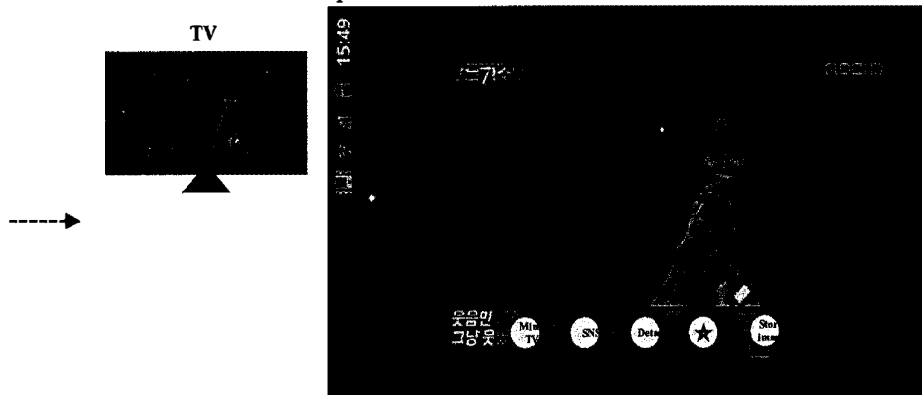
- When the outer region of the photo list window is pressed, the photo list window is closed.

9.1. Spot Menu > Call of Spot Menu



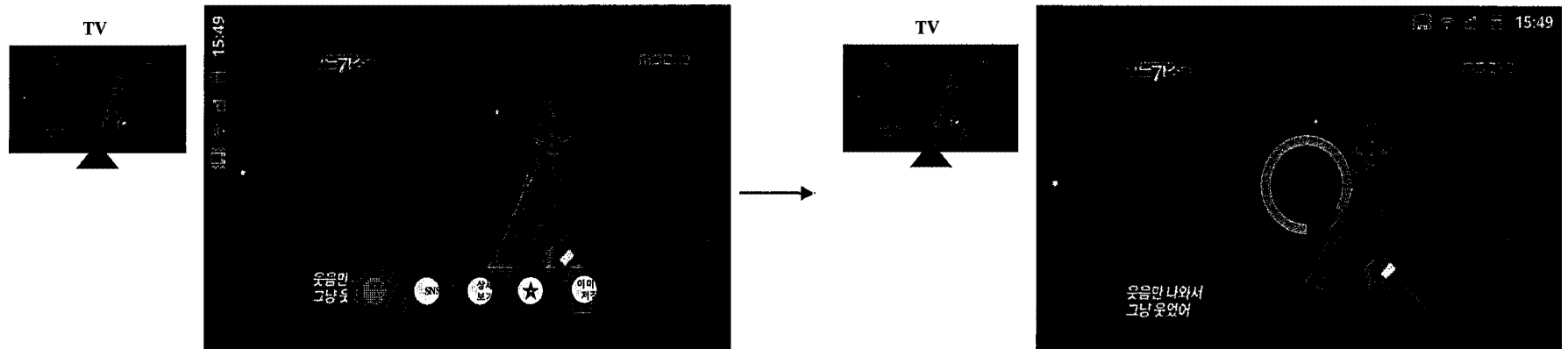
When snatching a device from all screens of the App., the current screen is captured, and a spot menu is provided.

A loading wheel is displayed.

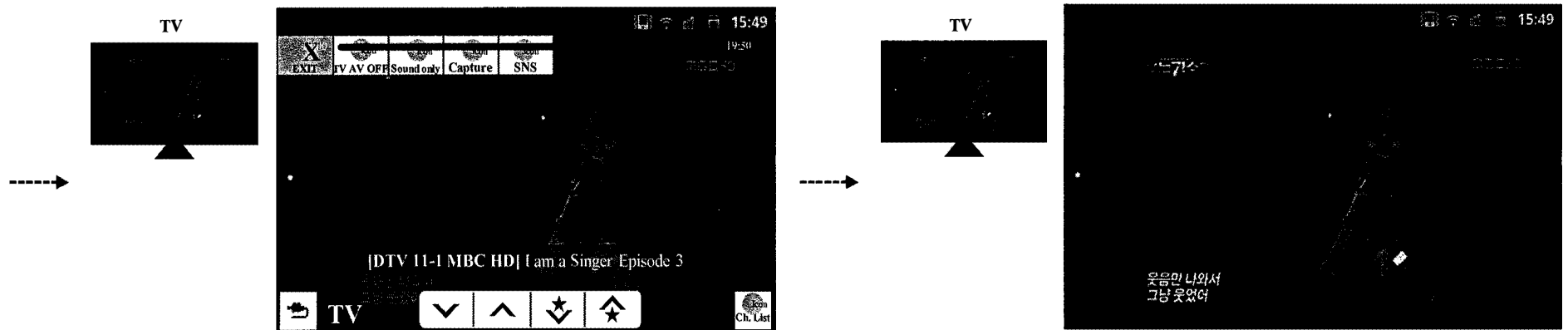


Five screens are captured from the time of snatching, the third screen is displayed, and a menu tool bar is displayed.

9.3. Spot Menu > Execution of Mini TV



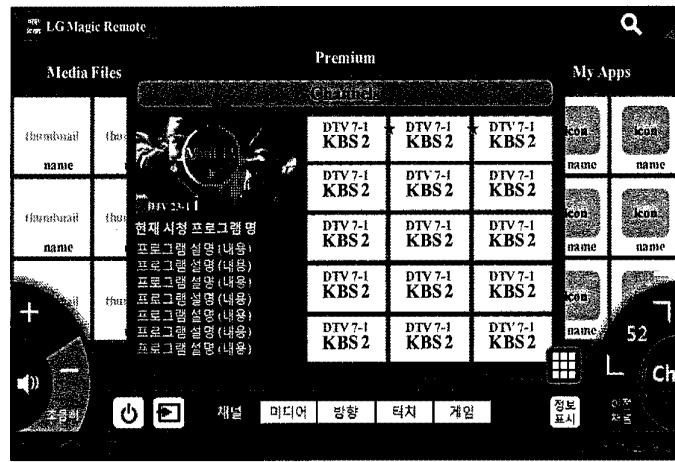
A loading wheel is displayed.



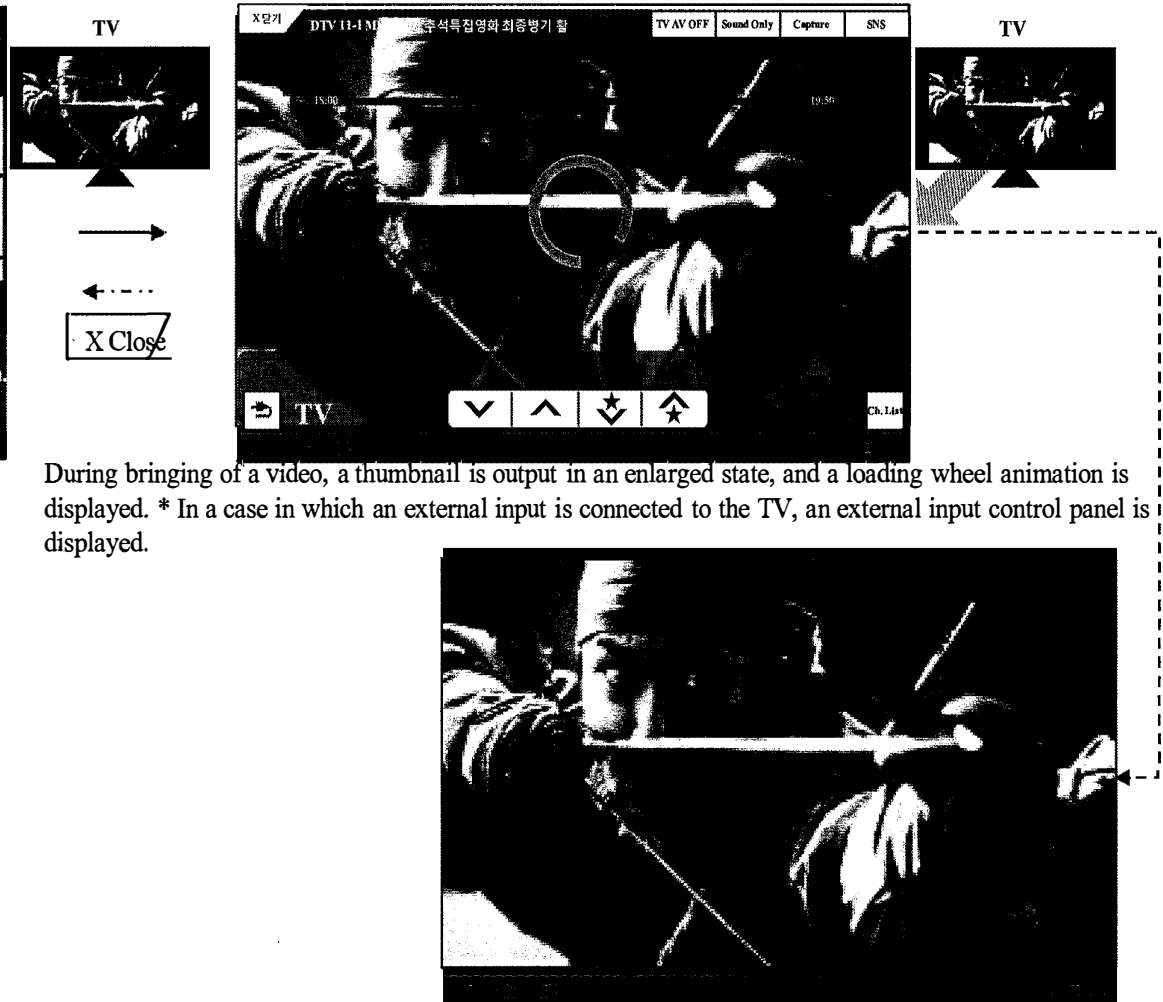
A TV video is brought.

Button and panel automatically disappear after 2 seconds.

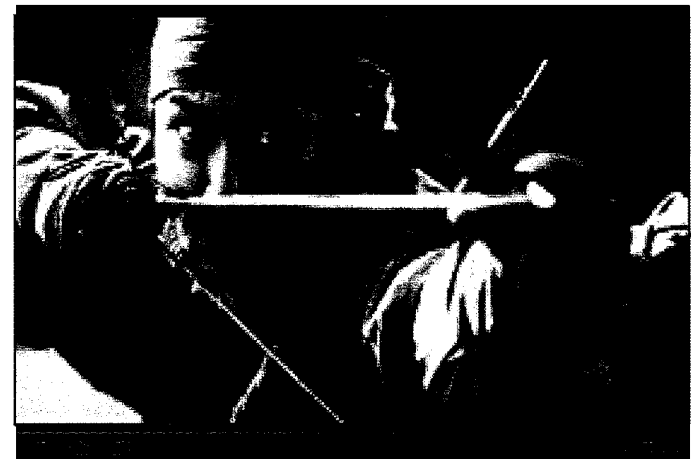
8.1.1. Mini TV > Execution at Home > Execution of current TV video



Currently viewing program name
Program description (Content)
Channel/media/direction/touch/game/display information

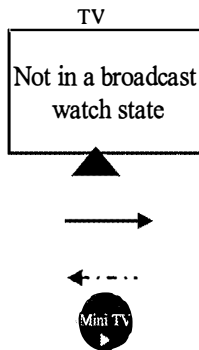
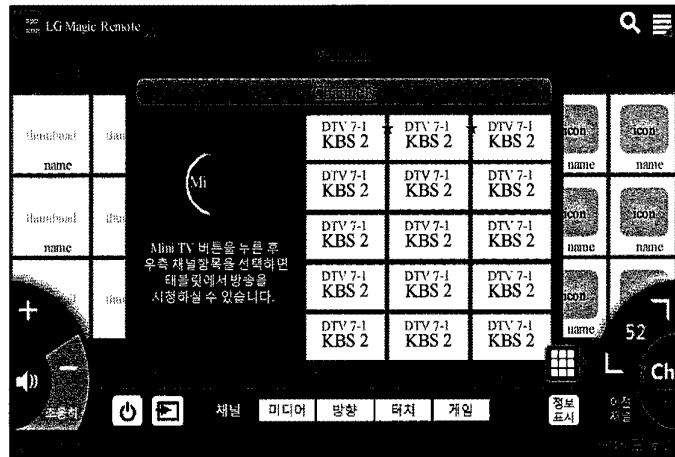


During bringing of a video, a thumbnail is output in an enlarged state, and a loading wheel animation is displayed. * In a case in which an external input is connected to the TV, an external input control panel is displayed.

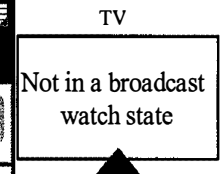
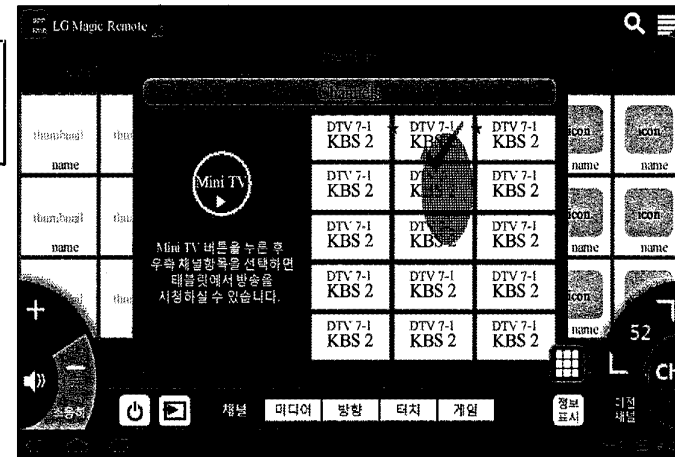


The button and panel disappear after 2 seconds
(disappear irrespective of loading completion time)

8.1.2. Mini TV > Execution at Home > Execution of selected channel



In a case in which the current TV state is not a broadcast watch state, broadcast information is not displayed but a guide instruction regarding execution of Mini TV is displayed at Home > channel section.



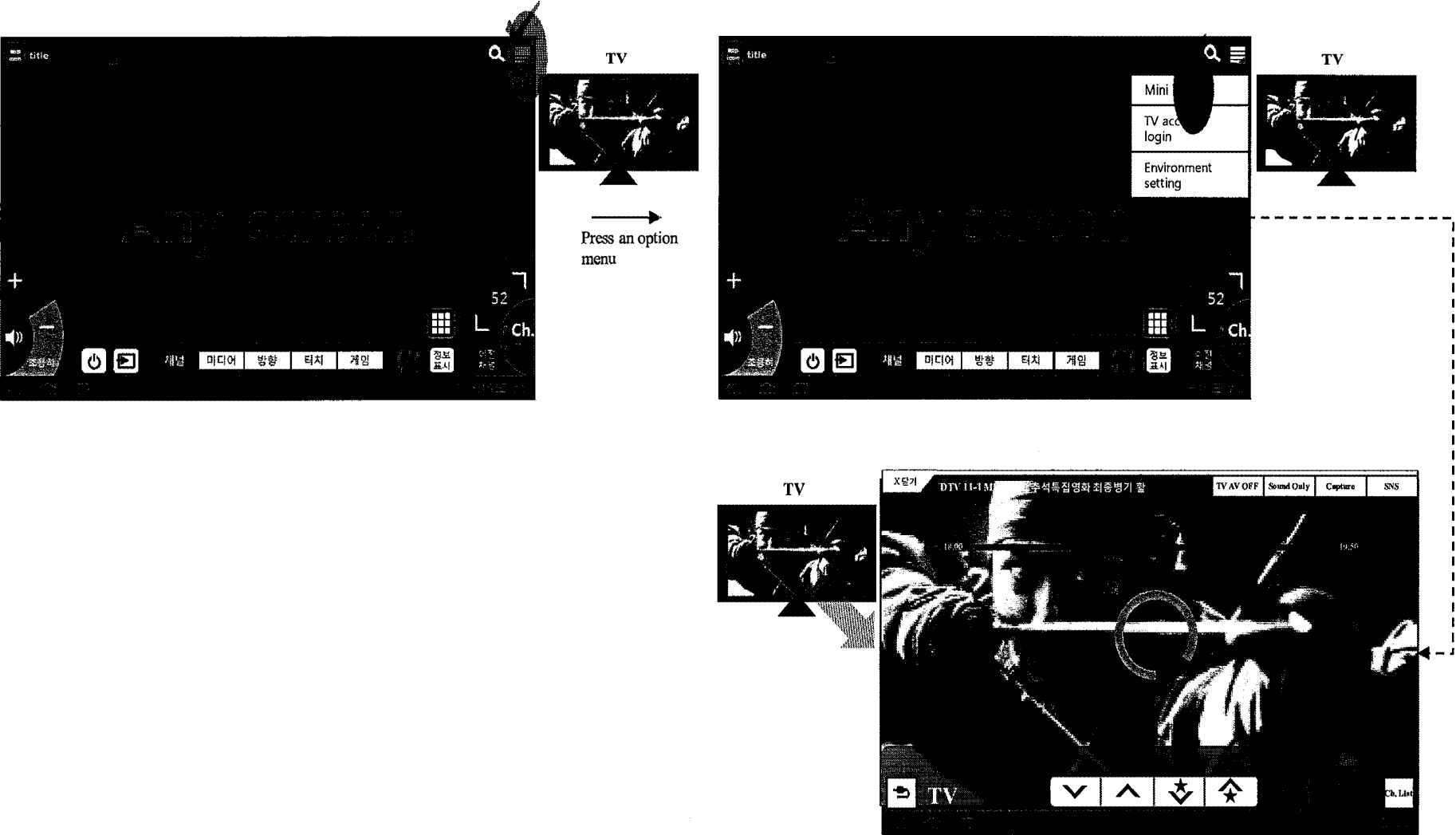
A channel selection mode is activated.



The selected channel is executed on Mini TV.

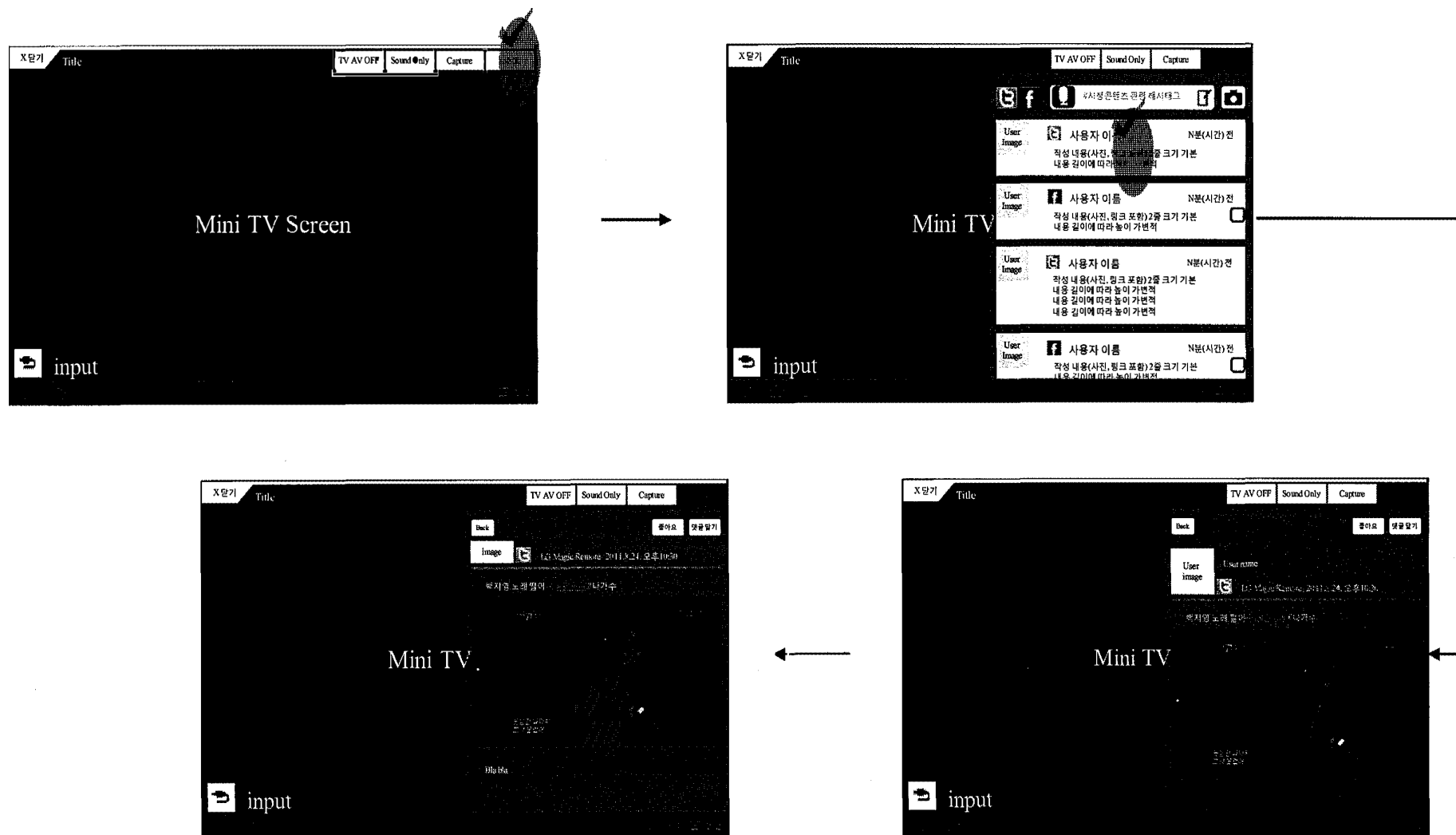
- The TV channel is also changed to the corresponding channel.

8.2. Mini TV > Execution at Option menu



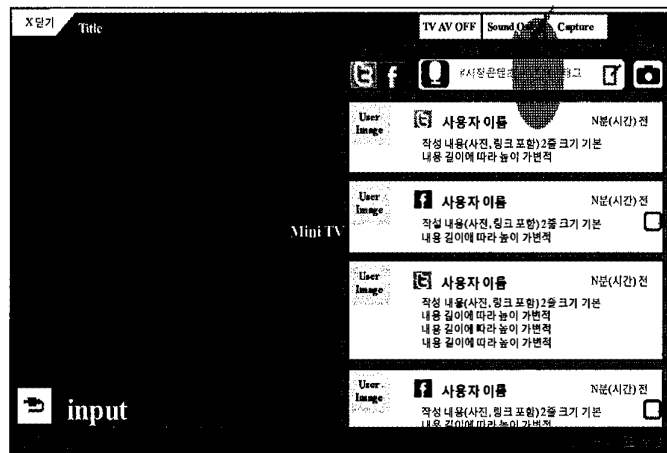
An input (TV / external input) currently displayed on TV is played back on Mini TV.
* During smart share playback, the last channel is played back.

8.7.1. Mini TV > SNS > Detail view

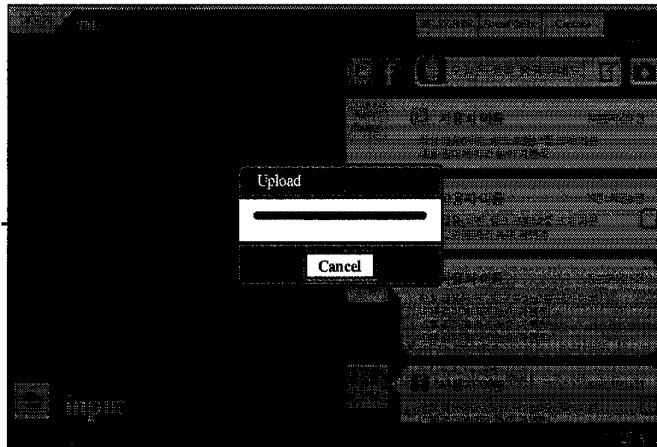


The detailed contents region is scrolled (a scroll bar is displayed).

8.7.2. Mini TV > SNS > Writing



- A state in which a hash tag related to the currently watched contents is input



Press upload after writing



When an SNS item button not to be uploaded is pressed, the SNS item button is turned OFF.

- An SNS item button, to which account has not been registered, is in an OFF state.

SNS sending has been completed.

1. Close a popup window and return to SNS screen (input text disappears)
2. A toast popup is displayed (disappears after N seconds)
3. The written text is updated and displayed.

8.7.3. Mini TV > SNS > Photo addition (1)

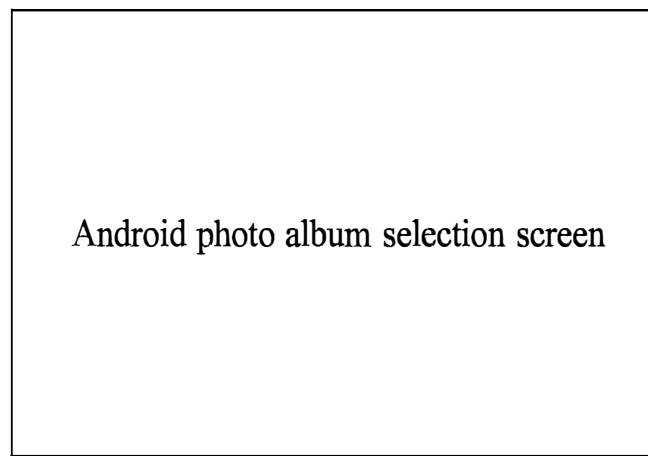
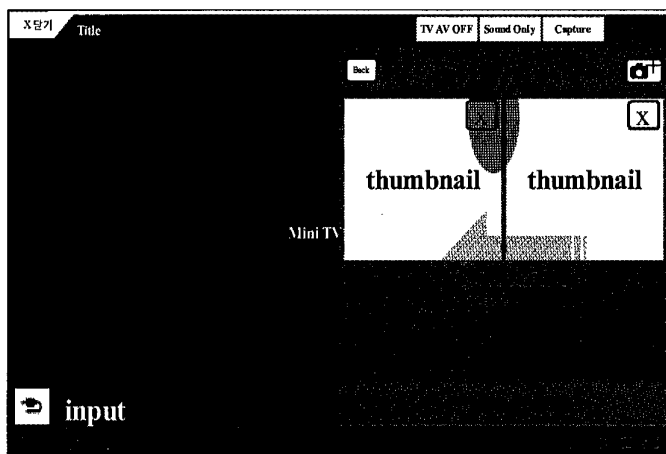


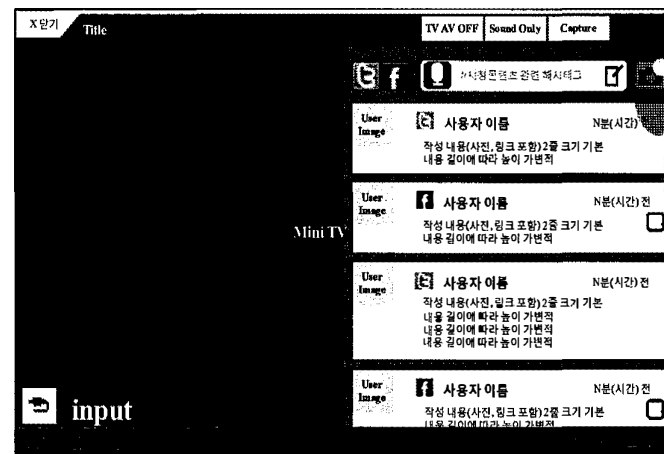
Photo
selection

- An android photo album selection mode is displayed.

Next page



- In a case in which there are added photos, a photo list window is displayed.

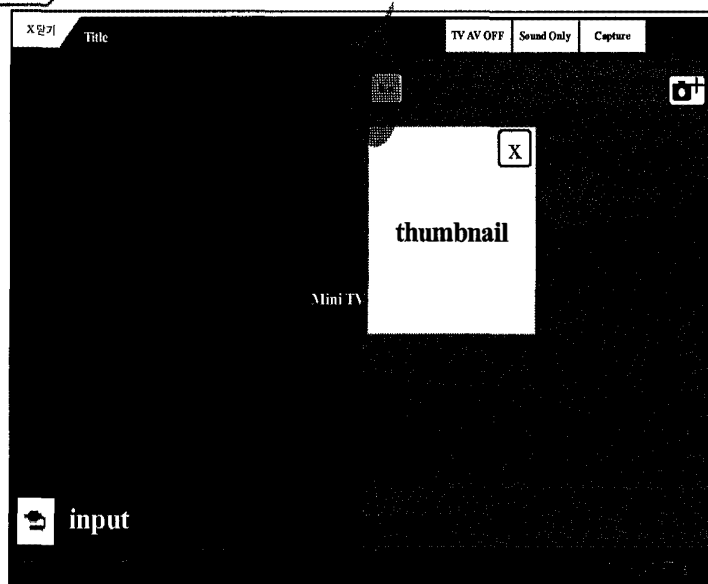


- The number of added photos is displayed in a photo addition button
- A writing (upload) button is activated

Attorney Docket No. UA12-0002
Section 4

8.7.3. Mini TV > SNS > Photo addition (2)

Previous page



Electronic Acknowledgement Receipt

EFS ID:	14521453
Application Number:	61583609
International Application Number:	
Confirmation Number:	7927
Title of Invention:	REMOTE APPLICATION
First Named Inventor/Applicant Name:	Jayoen KIM
Customer Number:	67487
Filer:	Andrew S. Park
Filer Authorized By:	
Attorney Docket Number:	UA12-0002
Receipt Date:	20-DEC-2012
Filing Date:	06-JAN-2012
Time Stamp:	01:17:18
Application Type:	Provisional

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		UA12002_T.pdf	18186646 959b06be10e#151361cf93b9e74c292#0ac544e4	yes	131

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Miscellaneous Incoming Letter	1	2
	Specification	3	131
Warnings:			
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing			
Information:			
Total Files Size (in bytes):		18186646	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			

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Andrew S. Park
1875 Century Park East
Suite #600
Los Angeles, CA 90067



**Courtesy Reminder for
Application Serial No: 61/583,609**

Attorney Docket No: UA12-0002

Customer Number: 67487

Date of Electronic Notification: 01/18/2012

This is a courtesy reminder that new correspondence is available for this application. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

uspto@kpatent.com

uspto.pks@gmail.com

info@kpatent.com

Please verify that these email addresses are correct.

To view your correspondence online or update your email addresses, please visit us anytime at <https://sportal.uspto.gov/secure/myportal/privatepair>. If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.



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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
61/583,609	01/06/2012	Jayoen KIM	UA12-0002

CONFIRMATION NO. 7927

IMPROPER PROVISIONAL LETTER



67487
Andrew S. Park
1875 Century Park East
Suite #600
Los Angeles, CA 90067

Date Mailed: 01/18/2012

Letter re Non-English Language Application Papers in a Provisional Application

The above-identified provisional application was filed in a language other than English. An English-language translation of a non-English provisional application and a statement that the translation is accurate must be filed in the provisional application. See 37 CFR 1.78(a)(5)(iv). Applicants are strongly encouraged to file the English-language translation of the provisional application and the statement that the translation is accurate in the provisional application before a nonprovisional application claiming the benefit of the provisional application is filed, or, alternatively, when making a claim for the benefit of the provisional application in a nonprovisional application. If, however, an English translation and a statement that the translation is accurate have not been filed in the above-identified provisional application when a nonprovisional application is filed claiming the benefit of the filing date of the provisional application, the Office should mail a Notice requiring an English translation and the statement to be filed in the provisional application and a confirmation to be filed in the nonprovisional application.

In the event that the Office schedules a nonprovisional application that claims the benefit of a provisional application filed in a language other than English for publication without issuing a Notice requiring the applicant to file an English translation of the non-English provisional application, the applicant should file the English translation of the non-English provisional application and a statement that the translation is accurate as soon as possible in the provisional application.

/nprasasouk/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
61/583,609	01/06/2012		250	UA12-0002		

CONFIRMATION NO. 7927

67487

Andrew S. Park
1875 Century Park East
Suite #600
Los Angeles, CA 90067

FILING RECEIPT



OC000000051998635

Date Mailed: 01/18/2012

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Jayoen KIM, Seoul, KOREA, REPUBLIC OF;
Daeyol NA, Seoul, KOREA, REPUBLIC OF;

Power of Attorney:

Andrew Park--47841

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 01/12/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/583,609**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

Title

REMOTE APPLICATION

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same

effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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AUTHORIZATION TO PERMIT ACCESS TO APPLICATION BY PARTICIPATING OFFICES

Send completed form to: Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450

COMPLETE IF KNOWN

Application Number	61/583,609
Filing Date	
First Named Inventor	Jayoen KIM
Attorney Docket Number	UA12-0002
Title (Required)	REMOTE APPLICATION

The undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h).

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified application, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified US application, and 3) any U.S. application from which benefit is sought in the above-identified application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

This written authorization should be submitted prior to the filing of a subsequent foreign application, in which priority is claimed to the above-identified patent application, with any intellectual property office (e.g., the EPO, JPO, or KIPO). However, if applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application, this written authorization should not be filed.

No fee will be charged under 37 CFR 1.19(b)(1) for providing a participating intellectual property office with an electronic copy of the above-identified application.

This form must be signed by an authorized party in accordance with 37 CFR 1.14(c).

/Andrew S. PARK/

01-08-2012

Signature

Date

Andrew S. PARK

82-2-2193-0001

Printed or Typed Name

Telephone Number

REMOTE APPLICATION

47841

Title

Registration Number, if applicable

This collection of information is required by 37 CFR 1.14(h). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process an application). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	11784459
Application Number:	61583609
International Application Number:	
Confirmation Number:	7927
Title of Invention:	REMOTE APPLICATION
First Named Inventor/Applicant Name:	Jayoen KIM
Customer Number:	67487
Filer:	Andrew S. Park
Filer Authorized By:	
Attorney Docket Number:	UA12-0002
Receipt Date:	08-JAN-2012
Filing Date:	
Time Stamp:	23:40:16
Application Type:	Provisional

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Authorization to access Appl. by Trilateral Office	UA12-0002_sb0039.pdf	222935 552a1f1d36e0875846e0843465f9836056d72906e	no	2

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Provisional Application for Patent Cover Sheet This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)					
Inventor(s)					
Inventor 1					Remove
Given Name	Middle Name	Family Name	City	State	Country i
Jayoen		KIM	Seoul		KR
Inventor 2					Remove
Given Name	Middle Name	Family Name	City	State	Country i
Daeyol		NA	Seoul		KR
All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add
Title of Invention		REMOTE APPLICATION			
Attorney Docket Number (if applicable)		UA12-0002			
Correspondence Address					
Direct all correspondence to (select one):					
☒ The address corresponding to Customer Number			☐ Firm or Individual Name		
Customer Number			67487		

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.	
☒ No.	
☐ Yes, the name of the U.S. Government agency and the Government contract number are:	

Entity Status Applicant claims small entity status under 37 CFR 1.27					
☐ Yes, applicant qualifies for small entity status under 37 CFR 1.27					
☒ No					
Warning					
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.					
Signature					
Please see 37 CFR 1.4(d) for the form of the signature.					
Signature	/Andrew S. Park/			Date (YYYY-MM-DD)	2012-01-06
First Name	Andrew	Last Name	Park	Registration Number (If appropriate)	47841
This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. This form can only be used when in conjunction with EFS-Web. If this form is mailed to the USPTO, it may cause delays in handling the provisional application.					

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PROVISIONAL APPLICATION FOR UNITED STATES PATENT
IN THE NAMES OF

Jayoen KIM and Daeyol NA

for

REMOTE APPLICATION

prepared by:

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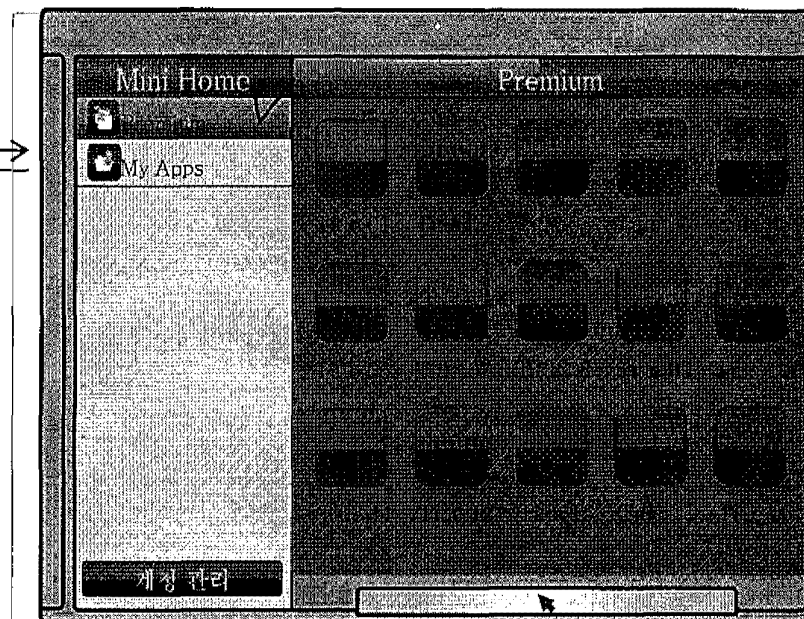
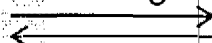
1.1 mini TV

Pairing 이후 첫 진입 시, "LG Smart TV (mini TV)" 페이지 제공

pairing

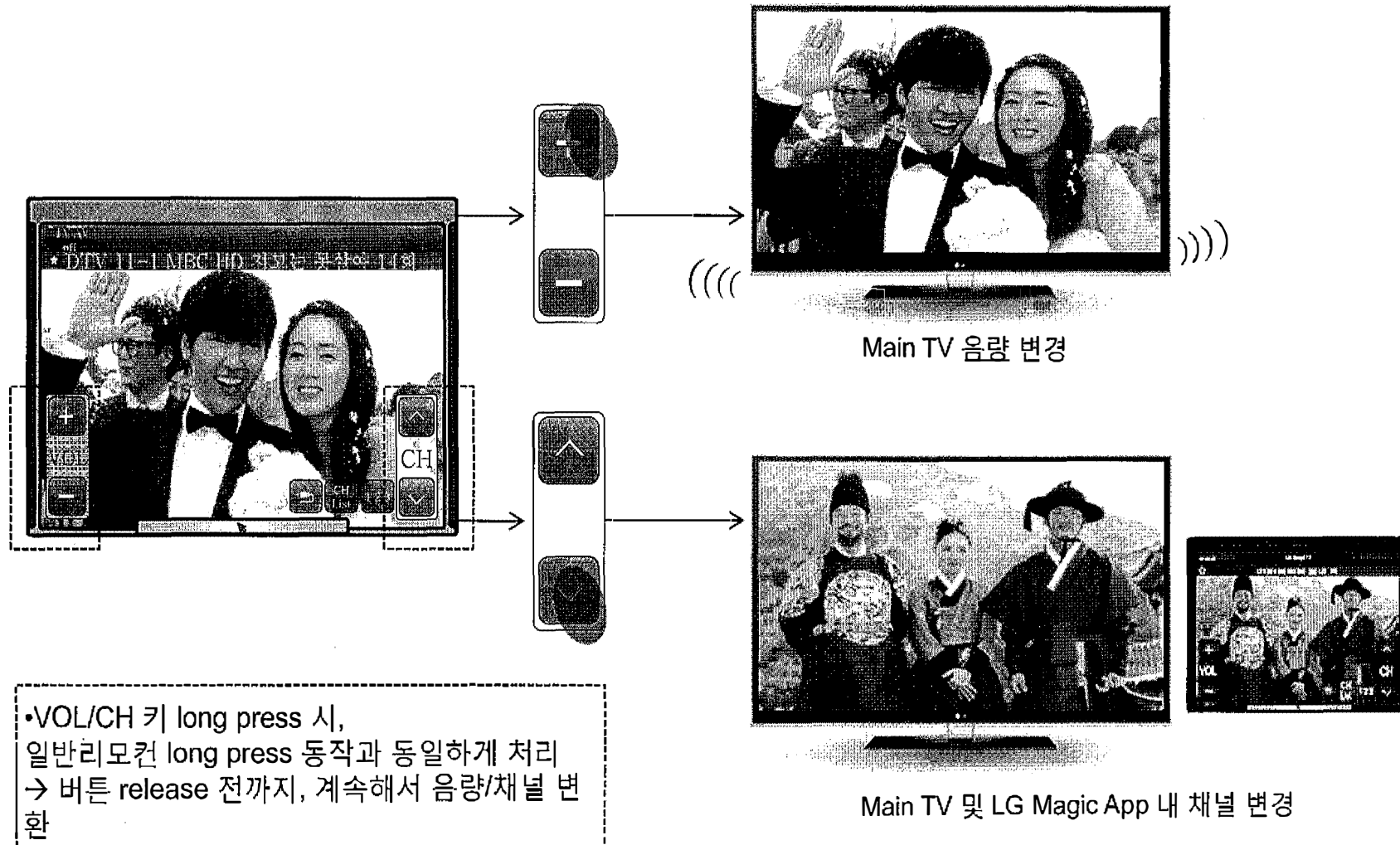


flicking



1.2 CH / VOL 변경

1) CH 및 VOL 버튼 눌러서 main TV의 채널/볼륨 조작함



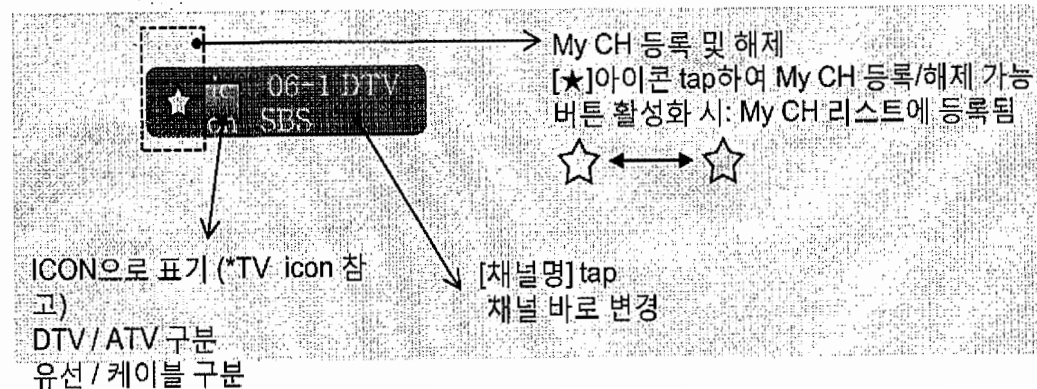
1.2 CH / VOL 변경

2) My CH / All CH

☆ ↔ ☆ 배너에서 MyCH 등록/해제 가능



→ 채널리스트



<2개의 tap으로 구성>

My CH: remote app 내에서 선호 채널로 등록한 채널 표기
(main TV 내 FAV 채널과 다름)

All CH: remote app 내에서 시청 가능한 채널 목록 제공
(main TV에서 검색한 모든 채널 리스트 제공)

→ My CH 및 All CH 동작성은 동일함

1.2 CH / VOL 변경

2) My CH / All CH



해당 채널로 변경



채널 리스트 내에서 변경하려는 채널 tap 함.