	(19) (12)			(KR) (A)				
(51) 。Int. Cl. ⁷ G11B 20/10					(11 (43	3)	10-2004- 2004 06	
(21) (22)	10-2002-0073118 2002 11 22							
(71)			416					
(72)				10	4 906	3		
				107	707			
		2		2	203	504		
		3	1595-2			2 1207		
(74)								
:								
(54)								

, 가 . , (a)

; (b)

, (b)

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7

1 2 , DVD

- 1

3 (1) 4

가 5 (1)

6 (400)

7 (1) 8

9

2 10

11 10

가 12

가 13

가 가

가 DVD VD PC AV AVDVD DVD-Video 가 . , DVD-Video DVD ΑV 가 가 ΑV AV 가 , AV

AV 가 가 가 . 가 가

가 'focus on'

- 2 -

1. 2. 'Tabbing Order' tab 3. 가 가 1 2 $\mathsf{D}\mathsf{V}\mathsf{D}$ 1 DVD-Video 가 가 2 (a) 2 (b) 가 2 (c) 가 , DVD - Video , DVD-Video DVD-Video , 가 가 가 , (a) ; (b) XML (a)

- 3 -

(a)

(a1) (a2)

10-2004-0045101

(b) 가 가 가 , (a) (b) , (a) (b) (a) (b) (b1) (b2) (b) 가 XML 가

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3 , , .

(1) (1) 4 (1) 1, 2 XML, HTML (JAV 2 A) 1 (1) (1) API(Application Program Interface) (1) API 2가 2 가 2 (1) 5 가 (100), (200), TV(300) (400)(400)(200)(200) (100)가 (100)가 (200)TV(300) . TV(300) 가, (200) 6 (400)6 (400)TV(300) (45), (47), (46)(48)가 (49)가 (45,46,47,48) (45,46,47,48) 7 (1) (72), 7 (1) (71), (73)(74)(71)

```
(74)
                                                                            (72)
                                      )
                    (74)
                                                          (74)
                                                                                   (71)
                                       (72)
                                                                                가
    (74)
                           (400)
                              (71)
                                                      (72)
                                                                            (400)
       (71)
                                 (72)
                   (73)
                                            (71)
  8
                                                          (Name),
                                                                       (Address),
                                                                                           (Telephone)
  8
              3
                                                        OK
                                                                                                           OK
                                                                                                    , OK
            'submit'
                                                                                  id = 1
                                                                                     (x,y) = (95, 26)
                                   가
                                                                         (cx,cy) = (84, 22)가
                                            id = 2가
                                                                                                           (x,y)
                        가
                                                              (cx,cy) = (84, 22)가
) = (53, 84)
                          id = 3
                                                                                          (x,y) = (83, 84)
       가
                                             (cx,cy) = (84, 22)가
                                                                                       , OK
                                                                                                            id
= 4가
                                                           (x,y) = (56, 125),
                 (cx,cy) = (89, 26)
                           XML
ap>
<inputitemlist>
< input item type='textfield' x='95' y='39' cx='84' cy='22' id='1' />
                                                                                     (1)
<inputitem type='texfield' x='95' y='53' cx='84' cy='22' id='2' />
<inputitem type='textfield' x='95' y='83' cx='84' cy='22' id='3' />
<inputitem type='button' x='56' y='125' cx='89' cy='26' id='4' />
</itemlist>
<focusinputlist>
<focusitem id='1' down='2'>
<focusitem id='2' up='1' down='3'>
                                                    (2)
<focusitem id='3' up='2' down='4'>
<focusitem id='4' up='3'>
```

```
</focusinputlist>
</inputmap>
     XML
                 <itemlist> <focusitemlist>
<itemlist>
                                                                                   , <focusitemlist>
             (400)
                                                                                      가
    (1):
               id
                            가
                                                                      가 (84,22)
                                                                                   text field
                                                 (95,39)
                         'TextArea', 'Button', 'TextField', 'List', 'CheckBox'
                                                                           id가 '1'
    (2):
               id
                          id가 '2'
                                                   가
                                                                        (71)
  (74)
         가
XML
import java.applet.*;
public class AnimationApplet extends Applet implements Runnable {
BUTTON currentOwner;
Thread animator;
public void init()
{ // applet
animator = new Thread(this);
//
                                  item
new textField(95,39,84,22,1);
new textField(95,53,84,22,2);
public void start()
{ // applet
                    page
if (animator.isAive()) {
animator.resume();
}
```

```
else {
animator.start();
}
}
public void stop()
{ // applet
                    page
animator.suspend();
}
public void destroy()
{ //
animator.stop();
}
public void run()
{ //
          가
String focus_map;
while(true) {
repaint();
Thread.sleep(100); // sleep for some time
check whether focus input is changed?
if it is changed then
{
focus_map = get_new_focusmap(); //
                                            Input map
                                                        가
sendFocusInputMap(focus_map); // Input map     UI controller
}
}
}
public void paint(Graphics g)
{ /* Applet
                                            */
...draw a focus indication information...
```

```
...draws other inoformation.
}
String get_new_focusmap()
{ //
//
//
String returnmap;
returnmap = '<inputmap>'
+'<inputitemlist>'
+'<inputitem type= \ 'textfield \ ' x= \ '95 \ ' y= \ '39 \ ' cx= \ '84 \ ' cy= \ '22 \ ' id= \ '1 \ ' />'
+'<inputitem type= \ 'texfield \ ' x= \ '95 \ ' y= \ '53 \ ' cx= \ '84 \ ' cy= \ '22 \ ' id= \ '2 \ ' >'
+'<inputitem type= \ 'textfield \ ' x= \ '95 \ ' y= \ '83 \ ' cx= \ '84 \ ' cy= \ '22 \ ' id= \ '3 \ ' />'
+'<inputitem type= \ 'button \ ' x= \ '56 \ ' y= \ '125 \ ' cx= \ '89 \ ' cy= \ '26 \ ' id= \ '4 \ ' />'
+'</itemlist>'
+'<focusinputlist>'
+'<focusitem id= \ '1 \ ' down='2'>'
+'<focusitem id= \ '2 \ ' up='1' down='3'>'
+'<focusitem id= \ '3 \ ' up='2' down='4'>'
+'<focusitem id= \ '4 \ ' up='3'>'
+'</focusinputlist>'
+'</inputmap>';
return returnmap;
                 XML DTD(Document Type Definition)
           , XML
                      가
                                                                                          , XML
```

```
TInputMap im= new InputMap();
TInputItem it = new TInputItem(TInputItem.TextField,95,26,84,22,-1,2,-1,-1,1); im.add(it);
TInputItem it = new TInputItem(TInputItem.TextField,95,53,84,22,1,3,-1,-1,2); im.add(it);
TInputItem it = new TInputItem(TInputItem.TextField,95,83,84,22,2,4,-1,-1,3); im.add(it);
TInputItem it = new TInputItem(TInputItem.Button,95,125,89,26,3,-1,-1,-1,4); im.add(it);
                       API
______
import java.applet.*;
public class AnimationApplet extends Applet implements Runnable {
BUTTON currentOwner;
Thread animator;
public void init()
{ // applet
animator = new Thread(this);
//
new textField(95,39,84,22,1);
new textField(95,53,84,22,2);
}
public void start()
{ // applet
                 page
if (animator.isAive()) {
animator.resume();
}
else {
animator.start();
}
```

}

```
public void stop()
{ // applet
                    page
animator.suspend();
public void destroy()
{ //
animator.stop();
}
public void run()
          가
{ //
String focus_map;
while(true) {
repaint();
Thread.sleep(100); // sleep for some time
check whether focus input is changed?
if it is changed then
{
// API
//
//
                     가
TInputMap im = new InputMap();
TInputItem it = new TInputItem(TInputItem.TextField,95,26,84,22,-1,2,-1,-1,1);
im.add(it);
TInputItem it = new TInputItem(TInputItem.TextField,95,53,84,22,1,3,-1,-1,2);
im.add(it);
TInputItem it = new TInputItem(TInputItem.TextField,95,83,84,22,2,4,-1,-1,3);
im.add(it);
TInputItem it = new TInputItem(TInputItem.Button, 95,125,89,26,3,-1,-1,-1,4);
im.add(it);
```

```
sendFocusInputMap(im); // Input map     UI controller
}
}
public void paint(Graphics g)
{ /*
                                               */
...draw a focus indication information...
...draws other inoformation.
}
}
    가,
                                    2
  9
  9
                                                                            hadrisauruses
                                                                                                      (type)
    (Anchor) A
                              id = dom: 1001
                                                                                                           가
                                              (x,y) = (414, 63)
                                    (cx,cy) = (140, 18)
                                                                                             Next
       'submit'
                             id = dom: 1010
                                                                        Next
                                                                                                           (x,y)
) = (519, 439) , Next
                                                     Next
                                                                 가
                                                                                                        (cx,cy)
= (86, 24)
                                     (animation applet)
                                                                          'object'
                                                                                                id = dom: 1011
                                                                 (x,y) = (34, 51),
                             가
                                                                    (cx,cy) = (264, 282)
                                                                                             7
  10
  10
                , (a)
       (71)
                              (72)
                (71)
                                       (72)
                                                                                             . (a)
                                                                                                     (b)
                            (400)
                                                                                                  (72)
            (71)
                                                                                         (71)
  11
           10
  11
                                  (72)
                                                                                                (x,y)
                                                                                          focus change messa
```

```
(71)
                                                                     (accept)
ge(x,y) + direction
                                                                                       (reject)
                                   (71)
      (45)
                                                                                                가
import java.applet.*;
public class DemandFocusApplet extends Applet {
BUTTON currentOwner;
public void paint(Graphics g)
                                             */
{ /* Applet
...draw a focus indication information...
...draws other inoformation.
}
public boolean demandFocusOwner(int x, int y, int dir)
                                                                                    */
{ /* document
                     Focus owner가
check whether applet can get focus from parent document on direction 'dir' at position(x,y).
if applet can get the focus, then return (true);
eles return (false);
}
public boolean gotFocus(int x, int y, int dir)
                                                     */
{ /* document
                     focus
set the button to be focused on direction 'dir' at position(x,y).
}
public boolean keyDown(Event e, int key)
{ /*
if applet can lose focus because user press a direction key to go out
of the focused applet, then call focus_change(key)
else
user navigates within the object boundary of the applet.
```

```
}
void focus_change(dir)
{ /* focus
                                                        */
// current focus owner is stored in currentOwner
BUTTON nextOwner;
int x, y;
x = getFocusOwnerPosition(1); // current focus position X
y = getFocusOwnerPosition(2); // current focus position Y
nextOwner = findNextFocusOwner(currentOwner,x,y,dir);
if (nextOwner == currentOwner)
{
if (notifyFocus(document,x,y,direction) == focus
accept))
{
loseFocus(currentOwner);
setFocus(document);
}
return;
}
loseFocus(currentOwner);
setFocus(nextOwner);
currentOwner = nextOwner;
}
                                                                                 가
  12
  12
       (a)
                                                       Mongolia
                                                                                                   (400)
                                       (47)
                                                       12 (b)
                                                                                        가
                                                   가
                                                                                 (46)
                                                                                                 12
                labeosaurs
                                                                                                     (c
                         가
                            가
)
```

	가			,	가	가					
	13									가	
	13	(a)	가	,	(49)	(1)(가	(47)	(74))		가	
	13	(b)	가	,	(46)	(1)(가 ,	(45) 가	(74))		가	
)	13	(c)	가	,	(46)	(1)((47)	(74)) ・ 가	가	(1)((45)	(74)
	13	(d)	가	,	(45)	(1)(가	가	(74)) (1)((47)		(74))	

, .

(57)1.

(a) ;

(b)

2. 1 ,

XML 가

3.1 ,

(a1) , ;

(a2)	,			
4. 3 (b)	,	가 가	, 가	
5.				,
(a)				;
(b)				
6.				,
(a)				;
(b)				
7. 5	6 ,			
8. 7 (b)	,			
(b1)				
9. 5 (b) (b2)	6 ,			

10.

, 가

· 11.

10 ...

. 12.

10 , XML 가

13. ;

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14.13 ,

15.13 14 ,

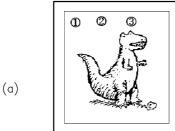
. **16.** 13 14 ,

- 17 -

Bactrosaurus was thought to be one of the first hadrosauruses or duckbilleddinosaurs. They lived in Asia in Inner Mongolia. They were pant eating orherbivores. Scientists believe that they lived in herds. A skeleton was found in 1923. These dinosaurs were thought to be related to labeosaurs. The Bactrosaurus was thought to be a fast runner. Bactrosaurus means club(spined) fizard they could grow up to 20 feet fong and were medium sized dinosaurs.

The Bactrosauruses are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their tails stuckstraight out benind them for balance. They were discovered in Inner Mongolia in 1923.

2



Bactrosaurus was thought to be one of the first <u>hadrosayruses</u> or <u>duckbilleddipenseus</u>. Hey lived in Asia in Innet <u>Monaolia</u>, hey were pant eating ntherbixeds. Scientists believe that they lived in herds. A skeleton was found in 1923. These dhosaurs were thought to be related to <u>labeosaurs</u>. The Bactrosaurus was thought to be a fast runner. <u>Bactrosaurus</u> means club(spined) lizard. They could grow up to 20 feet long and were medium sized dinosaurs.

포커스 -

The <u>Bactrosaurus</u> as a duck billed dinosaur that lived in Asia in the <u>Mesozoic era. Bactrosauruses</u> are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their tails stuckstraight out benind them for balance. They were discovered in Inner <u>Monaolia</u> in 1923.

Next

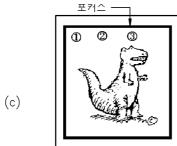
(b)

Bactrosaurus was thought to be one of the first hadrosauruses or duckbilleddinosaurs. They lived in Asia in Inner Mongolia. They were pant eating orherbivores. Scientists believe that they lived in herds. A skeleton was found in 1923. These diposaurs were thought to be related to labocasurs. The Bactrosaurus was thought to be a fast runner. Bactrosaurus means club(spined) lizard. They could grow up to 20 feet long and were medium sized dinosaurs.

포커스 -

The <u>Bactrosaurus</u> was a duck billed dinosaur that lived in Asia in the <u>Mesazoic era. Bactrosauruses</u> are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their tails stuckstraight out benind them for balance. They were discovered in Inner <u>Mongolia</u> in 1923.

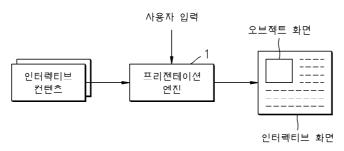
Next

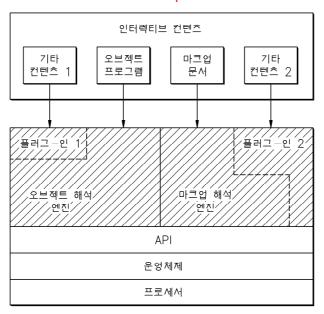


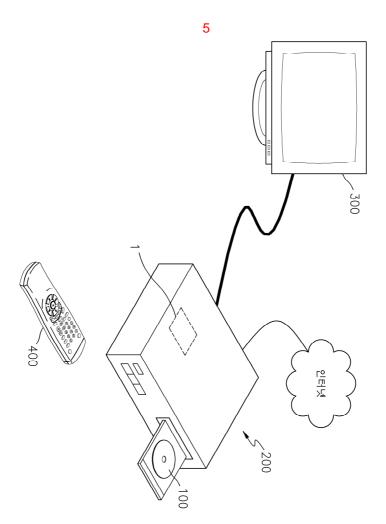
Bactrosaurus was thought to be one of the first hadrosauruses or duckbilleddinosaurs. They lived in Asia in Innet Mongolia. They were pant eating orherbivores. Scientists believe that they lived in herds. A skeleton was found in 1923. These dinosaurs were thought to be related to labeosaurs. The Bactrosaurus was thought to be a fast runner. Bactrosaurus means club(spined) lizard. They could grow up to 20 feet long and were medium sized dinosaurs.

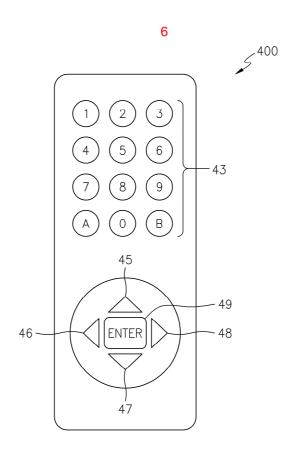
The <u>Bactrosaurus</u> was a duck billed dinosaur that lived in Asia in the <u>Mesozoic era. Bactrosauruses</u> are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their tails stuckstraight out benind them for balance. They were discovered in Inner <u>Mongolia</u> in 1923.

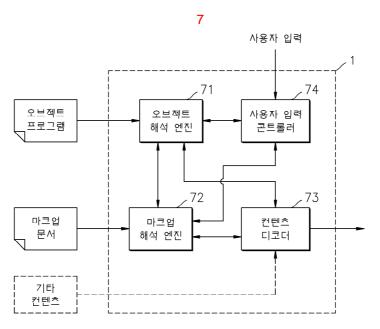
Next

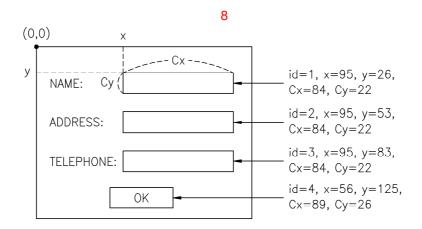




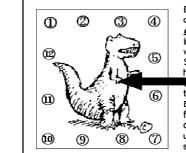








	9										
애니머이션 애플릿	[Next]	Mongolia	Bactrosauruses	Mesozoic era	Bactrosaurus	Bactrosaurus	labeosaurus	Mongolia	duckbilleddinos aurs	hadrosauruses	입력 아이템
object	submit	Α	Α	Α	Α	Α	Α	А	Α	Α	type
34	519	<u>~</u>	161	36	69	452	453	451	328	414	×
<u>თ</u> _	439	433	372	372	347	254	212	107	84	63	У
20+	86	85	41	18	23	23	11	85	58	40	СХ
282	24	18	18	18	18	18	18	18	18		су
dom:1011	dom:1010	dom:1009	dom:1008	dom:1007	dom:1006	dom:1005	dom:1004	dom:1003	dom:1002	dom:1001	id

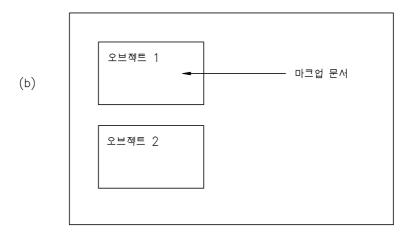


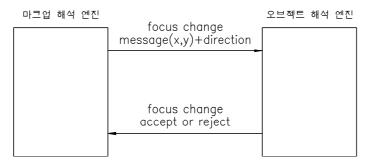
(a)

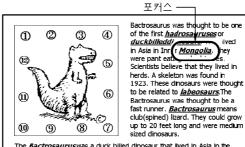
Bactrosaurus was thought to be one of the first <code>hadrosauruses</code> or <code>duckbilleddi</code> in Asia in Inr (<code>Mongolia</code> hey were pant eath es. Scientists believe that they lived in herds. A skeleton was found in to be related to <code>labeosaurs</code>. The Bactrosaurus were thought to be related to <code>labeosaurus</code> means club(spined) lizard. They could grow up to 20 feet long and were medium sized dinosaurs.

The <u>Bactrosaurus</u> was a duck billed dinosaur that lived in Asia in the <u>Mesozoic era. Bactrosauruses</u> are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their tails stuckstraight out benind them for balance. They were discovered in Inner <u>Mongolia</u> in 1923.

Next







The <u>Bactrosaurus</u> was a duck billed dinosaur that lived in Asia in the <u>Mesozoic era</u> <u>Bactrosauruse</u> are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their tails stuckstraight out benind them for balance. They were discovered in Inner <u>Mongolia</u> in 1923.

Next

Bactrosaurus was thought to be one of the first <u>hadrosaurusee</u> or <u>duckbilledd</u> we'd in Asia in Inr (* <u>Monaglia</u>, hey were pant eat. es. Scientists believe that they lived in herds. A skeleton was found in 1923. These diposaurs were thought to be related to <u>labeosaurs</u> he Bactrosaurus was thought to be related to the labeosaurs in each sactrosaurus was thought to be feet long and were medium sized dinosaurs.

포커스 -

The <u>Bactrosaurus</u> was a duck billed dinosaur that lived in Asia in the <u>Mesozoic era. Bactrosauruses</u> are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their tails stuckstraight out benind them for balance. They were discovered in Inner <u>Mongolia</u> in 1923.

Next

型刊△ ① ② ③ ④ ② ⑤ ⑤ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥

Bactrosaurus was thought to be one of the first hadrosauruses or duckbilledd were pant eathers. Scientists believe that they lived in Asia in Inr (r Mongolia) hey were pant eathers. Scientists believe that they lived in herds. A skeleton was found in 1923. These dinosaurs were thought to be related to labeosaurs. The Bactrosaurus was thought to be a fast runner. Bactrosaurus means club (spined) lizard. They could grow up to 20 feet long and were medium sized dinosaurs.

The <u>Bactrosaurus</u>was a duck billed dinosaur that Ived in Asia in the <u>Mesozoic era. Bactrosauruses</u> are vegetarians. They roamed in groups to protect themselves and their young. They could run swiftly with their talls stuckstraight out benind them for balance. They were discovered in Inner <u>Mongolia</u> in 1923.

Next

(c)

(a)

(b)

