

(54)

가 (100) (110) (132) (130)
 가 (134) (132) (110)
 , (through plane)(130) (I/O)
 (100)
 가 (200) PCI
 1 가 (205) , 2 .

1

erver engine) 가 (scalable s

(ESP) (ISP), (ASP), (ISV),
 가 (MSP) 가
 가 , , , , ,
 , ' (hosted service)
 (HSP)

HSP , 가 . HSP가 HSP 가
 , 가 , , , HSP (serv
 er farm)' , (collection) ,

ompetitive ISP

가 가 , 가

(corporate network)

HSP , HSP 가 ,

가 HSP HSP가 가 , (,)

, HSP , HSP

, HSP HSP (immediate revenue)

(idle capacity) 가

, HSP가 가 ()

HSP , HSP

가 가 HSP

가 (HSP) 가 (HSP)

(rack mounted cabin

et) 가 (pizza b

ox)' 'U' (Cobalt Network Systems) Ra

Q , IBM Netfinity (Hewlett-Packard) A (A-class)

가 (server farm) 가

가 , , ,

form factor) 1U , 1U 가 1U (1U

ChatCom (chatterbox)

RAID CPU

(hot-swappable module) CPU

COM CPU I/O

386, 486, 가 (Cha

tCom) 가 AT 가 PC CPU ATX 가

(hot swappable power supply)

(hot pluggable unit)

가

가

5,877,938

6,025,989

가

I/O

5,251,097

I/O

5,488,541

VME

5,912,802

6,035,356

6,094,351

6,035,356

1

2

I/O

(end-to-end)

, 2

I/O

6,094,351

2

가

가

(scalable internet engine)

(through plane)

(I/O)

가

가

1

2

PCI

ATX

가

가

(HSP) 가 . 가
 , ATX 가 ,
 , 가
 , I/O 가
 , I/O PCI 2 2
 가
 가 , HSP
 3 (N+2) ,
 19 NEBS , 32 75%
 2U
 , I/O , ATX
 , , ,
 1 (skin) (door)
 2 4
 3
 4 2
 5, 6 7
 8 9
 10
 11 14
 15
 16
 17

18, 19 20 I/O , .

21 31 .

1 , (100) (110) (100) .
 , (110) (100)
 (110) (112), (114), (116) (118) ,
 (116) (110) (122) ,
 (121) (110) (120) , (120)
 (120) (110) (120)
 (124) (114) (125) (112)
 (124) (126) (110) (124) (124)
 (112) (114) , (124)
 (127) , (110) , 1000 mm 84
 19 NEBS (110) 19 (110)
 (120) (124) , ,

NEBS
 NEBS

1 3 , (132) (134) (11
 0) (130) (112) (114) (134) [, SCSI (132) , SAN(S
 storage Area Network) (FC; Fibre Channel)] (, FC
 , ATM) (124) (112) (132) 가 , (I/O) (124)(
) (114) (134) 가 . (134) (132) (112)
 (114) , (132) (134)
 가 (134)

, 2 가 , 2 (128) (110)
 , (128) 16 (132)
 (128) 2 (129)
 (129) (129) 8
 (144) (128) (128) 32 (129) (129) . 2
 (128) 가 (132) (128) (110)
 (132), (129) (128) 가 (128)
 (110) , 가 (132) (128)
 , 가 (110) (132) (129)

2 3 , (140) (128) 가

(140) (128) (142) (132) 5, 6 7 ,
(142) 가 (132) (143)
(140) (142) 가 (140) (141)
(140) (140) 3 (129) (142) 가 (129) 3
8 9 (146) 가 (144) (129) (144) (128)
(130) AC/DC (146) (148) (144) , 2
(110) (146) (144)가 3 가
(144)가 (144)가
(170) (146) 4 (144)가 가
(144) Magnetec 가 HP3 400
AC/DC (148) (172) (174)
AC/DC (148) (178) CD (179) AC/DC (176)
(148) (178) (179) (304) (148)
(132) (132) (132)
(132)
, AC/DC (148) CD (150) (152)
AC/DC (148) (130)
2 (128) , 2 (129), (146) (140)
37 40 (129) 8 1 (14)
0) (128) (128) (129) 8 가 (132)
(146) (129)
(110) (110) (154) (110)
(110) (110) 2 1U 가
(128) (156)
(110) 가 가
(156) 가 가
가 (110)
110) 가 (110)
, 2 4 (110) (110) (102)
, 2 (110) (102)
(110) (120) (110) (110)
(110) (110) (110)
(110) , 2 (110) (102) (132)
(110) (102) (102)
(102) (102) , 1024 (132)
16 4 16 (110)
, 1000 (110) 100,000

(102) , (102) 가 (102) 가 (110)

0) , (102) 가 (102) 가 (110) 4

(102) , (160) (102) (110) (160) . 4

3), (164) (160) (161), 가 (162), (16)

() (165) (165) (164)

10 (124) 가 (180) (181)

(132) 가 (181) 가 2 (124)

(182) (183) (181) 가 (185) (110)

(184) (181) (188) (186)

(187) 189

11 14 (132) ()

132) (110) (202) (110) (112) (202) 가

(200) (204) (132)

16) (206, 207) 1 (134) (136)(

15) (208, 209) 2 (300, 302)(

(202) (200) (202)

) 가 (200) 가 12

(200) 가 16.5 가 16.5 가 13.75

(200) (200) PCI (205) 가 가

(132) PCI (205) (210) ,

(210) (210) (204) PCI 가

(210) (200) 가 (202) (132) 가

가 (200) (202) (200)

() () ()

(100) (200) 1 (128) 1

(200) 1 (132) , 2 2 (200) 2

(132) 가

, 3가 (132)가 1 (132)

(132) (warehouse) (front-end server) 2

3 (132) (132) 3가

(132)

가 가 ,

I/O

13
 4) (226, 228) (220) (202) (230) (222), (22) (220) (230)
 (224) (210) (210) (210) (230)
 가 (200) (210) (202) (232)
 (220) (222) (202)
 (232) (230) (234, 236) (232)
 (230) (226, 228) (235)(3)
 (110) (129) (110)
 (242) (220) (200) (200) (210) (standoff)(244) (210)
 가 (248) (202) 가
 (246)
 (232) (252) / (250)
 (129) (129) (254) (204)가 (250) (2)
 ()가 (256) / (250)
 10) (129) (130) (130) (130) (112) (12)
 15 16 (129) (130) (130) (129)
 8) (116) (110) (130) (130) (110) (129)
 (130) (128) (210) (204) 2 (208, 209) 2
 (300, 302) (132) (300) AC/DC (148)
 (129) (130) (208) (209) (302)
 (302) (132)가 가 가
 1 가 (132) 가
 2
 15 (130) (304) (110) ()
 114) 가 (132) 가 (300, 302, 304)가 (130)
 가 가 (130) 가
 (306) (306) (300, 302) (130)
 (306) (210) 가 (204) 1 (206, 207) (128)
 가 (134) 가 (207) 1 (206) (132) 가
 (132)가 (204) (207) I/O AMP
 (134)가 I/O (310) (310) (310)
 (134) (132)가 (134)
 (110) (134) (134)
 (132) (134)
 I/O (310) I/O
 (312) (130) (310)
 (320) (128) (320) (132)
 (320) (330) (129) (332) (140)

, 18, 19 20 I/O (310) , I/O
 (310) (210) (204) 1 (206) (312)
 I/O (310) PCI (314, 316) (207)
 (134) (130) (306) I/O (310) 가
 (132) (134)
 PCI , I/O (310) PCI (PCI ()
 PCI PCI) (200) (210) PCI (PCI
 PCI (210) 가 (210) (210)
 (206) 가 PCI (206) (210)
 (210) PCI (314, 316) PCI (210) 가
 (206) 가 (210) 가 PCI 가
 PCI ISA PCI (206) 가 (130) I/O (310) .
 (306) I/O I/O PCI I/O (306) I/O
 가 I/O I/O PCI I/O PCI I/O
 PCI PCI I/O PCI
 (306) (132)가 (132) 가
 2 (206) (132)
 가
 , 21 31 (204), (210) I/O (310) PCI (205)
 (209) 21 (210) (260), 22 23 PCI I/O (310)
 (306) PCI 가 PCI (200) (209)
 24 PCI 가 (205) (210) (209)
 25 (200) 가
 26 가
 I/O 27 28 (200)
 (210) (209)
 31
 29 (260) (262) ()
 260) (210) (264)
 (266) (268)
 (200) (210) (267) 가 (269) (128)
 (132) (270) 가 30 . ATX (266) (270)가 ATX
 (200) ATX ATX (200) (262) 가
 ATX ATX (200) (262) 가 (LANsite)
 ATX 가 ATX
 가 (128) (132) 가 (144)
 (144)가

100) (144) (210) 가 . (210) (269) (200)가 (200) (200) (268) (264) 가 (132) (210) (200) 가 (200) (268)

00) ATX

(57)

1.

가 2 가 - ; , 1 , , 1 - ; 2 가 가 가 2 가 가 가 2 , 가 가 2 ,

2.

1 , 1 , 2 I/O

3.

2 , 가 , 가

4.

3 , PCI 가 ATX , PCI 가 , , 1 , 2 ATX

5.

1 , 2 I/O

6. PCI 가 ,
 PCI 가 ,
 1 2

7. ,

8. 가 ,

9. 4 , 가 ,

10.

가 가 -
 , 1 2 1 가 2 1 , 2 1 1
 ; 가 , - ,

11. 10 ,

12. PCI 가 ,
 PCI 가 ,

13.

,
;
PCI 가 가

가 - ;
PCI 가 ,

13 14.
, ,
, ;
가 가 , ;
가 ,
;
가

14 15.
, .

14 16.
, 가 PCI .

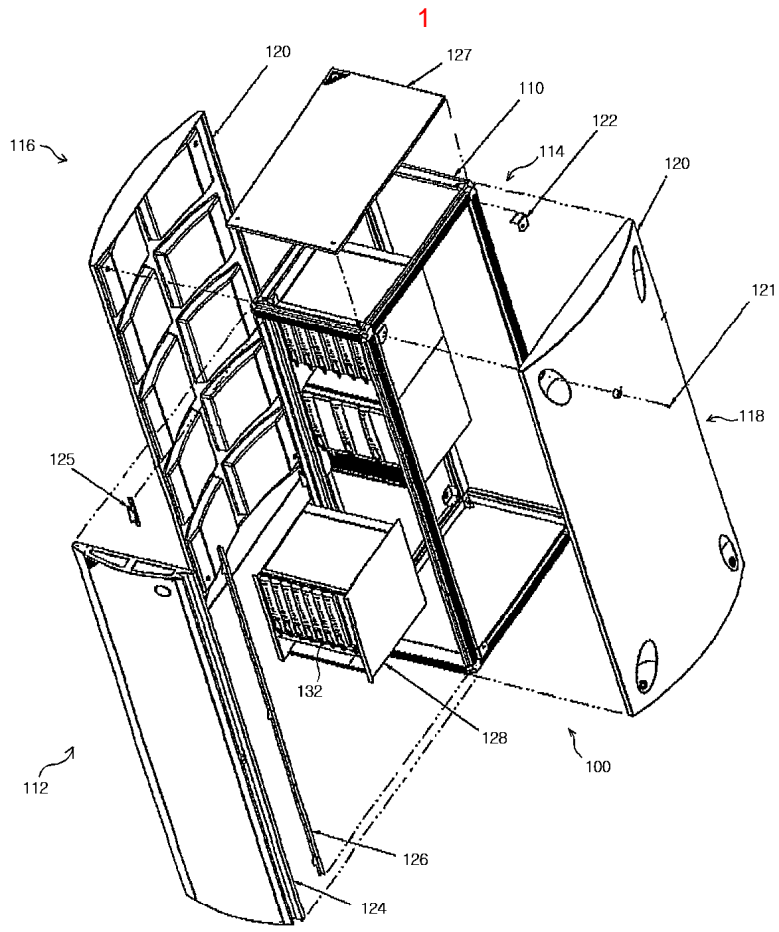
14 17.
, , .

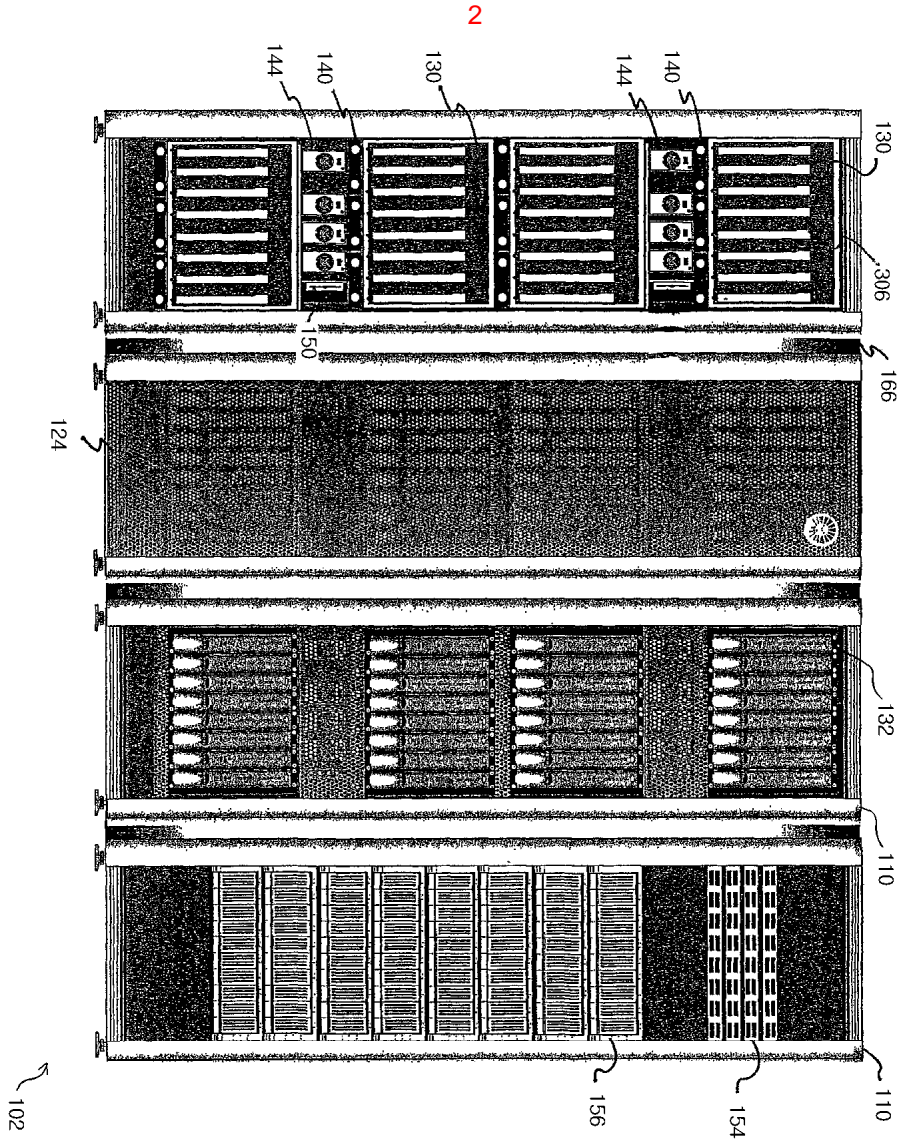
18.
;
가 -
, 가 - ;
가 , - ,
가 , - ;
, 가 ;

18 19.

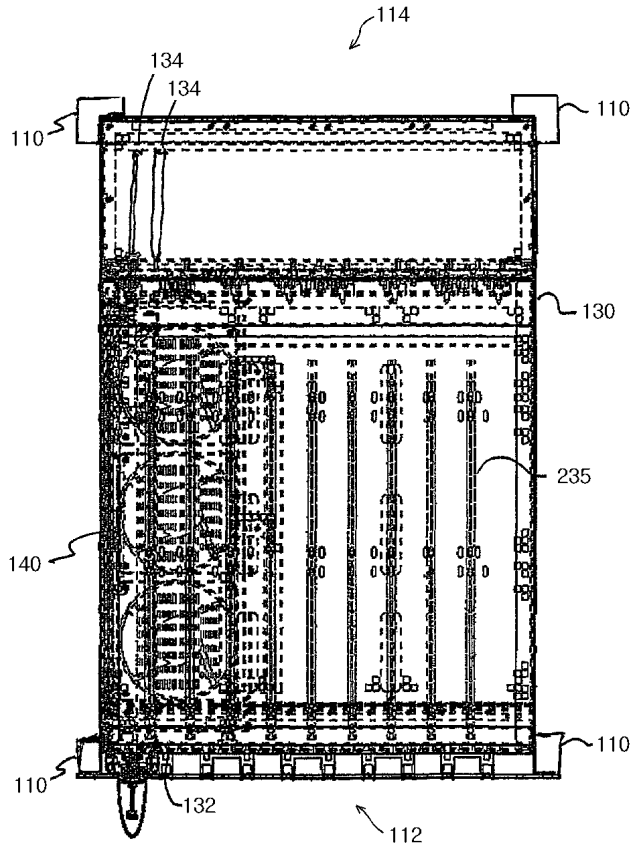
18 20.

가

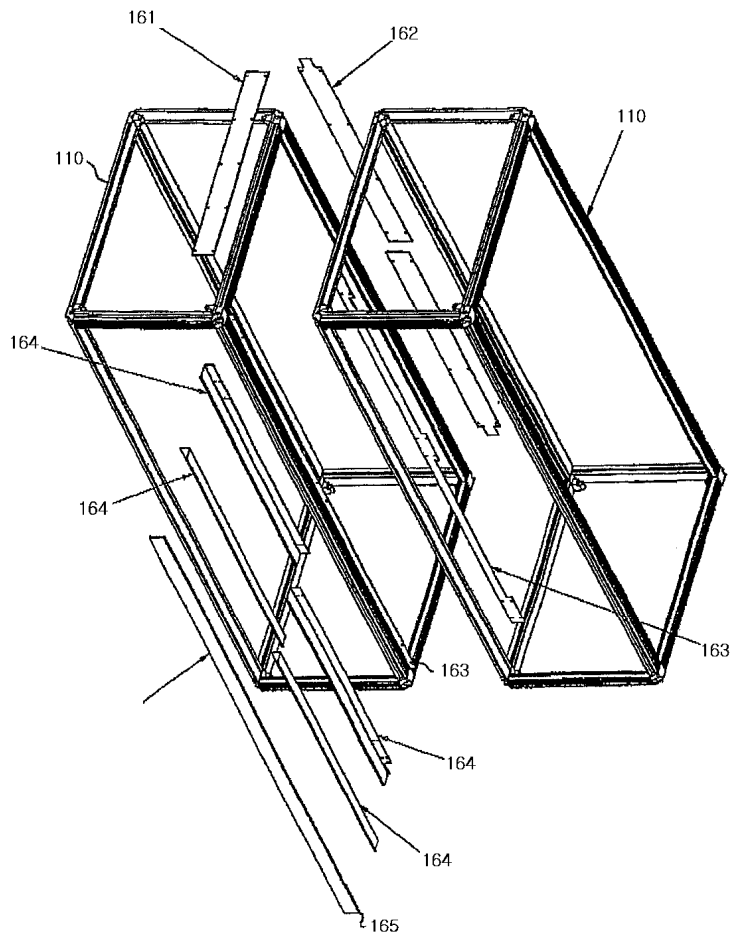


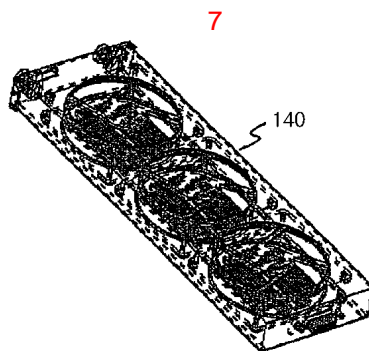
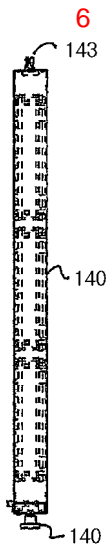
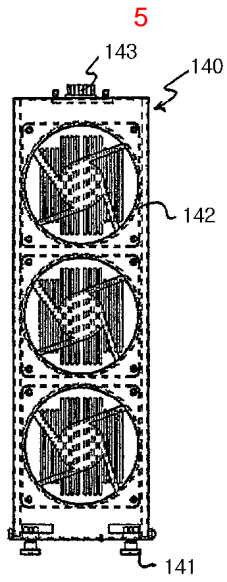


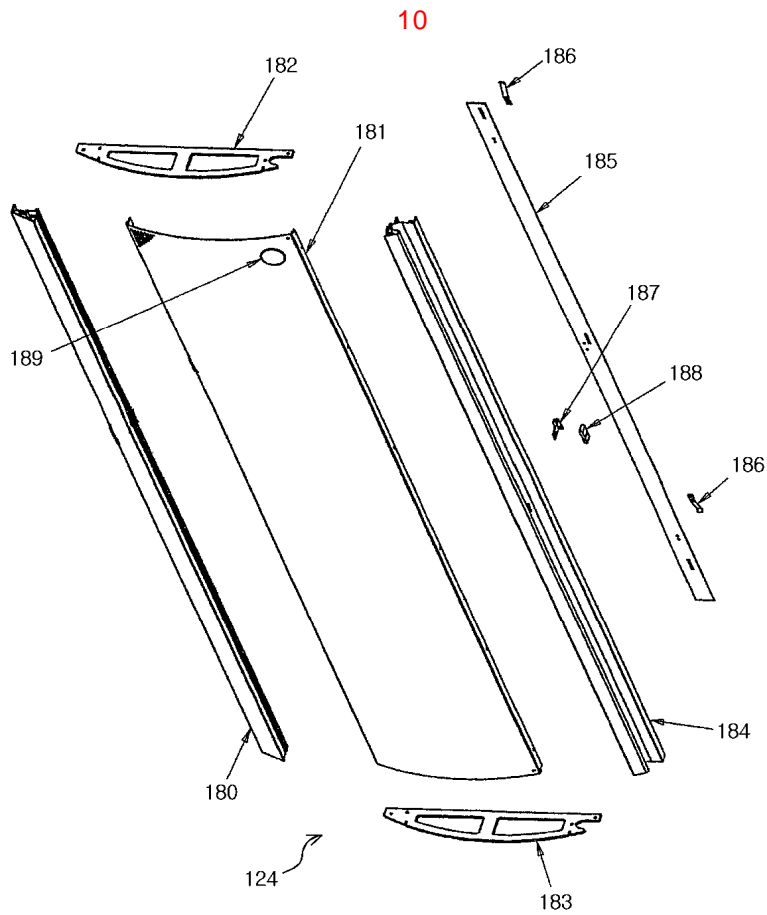
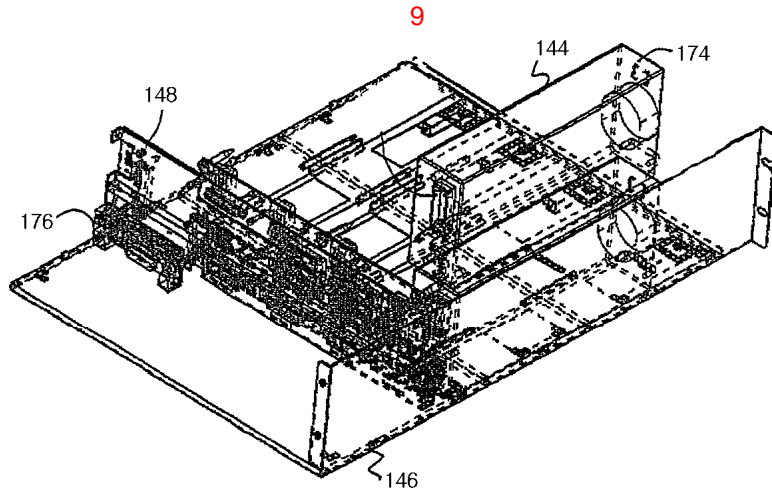
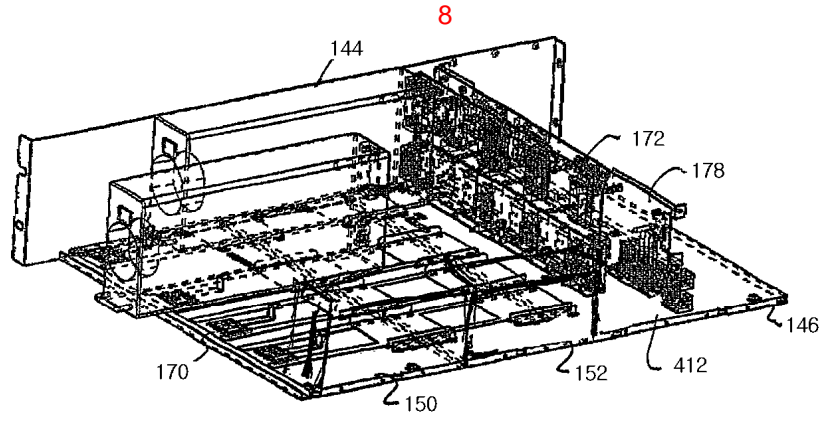
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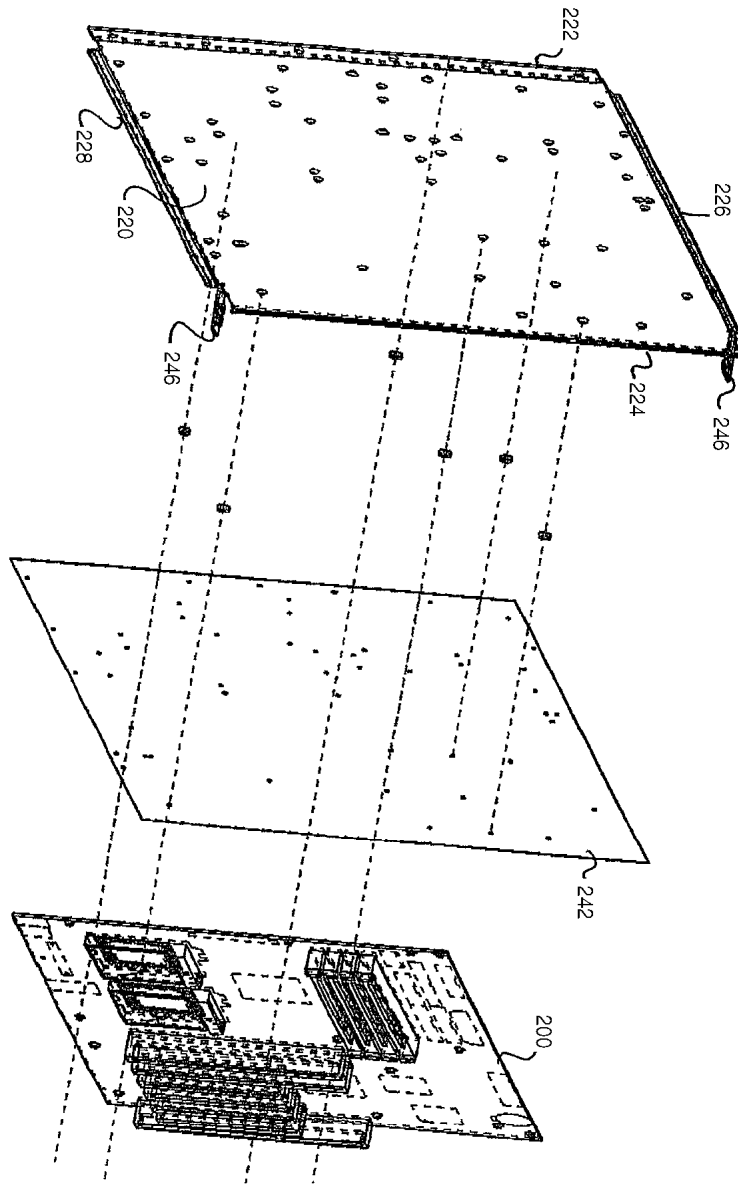
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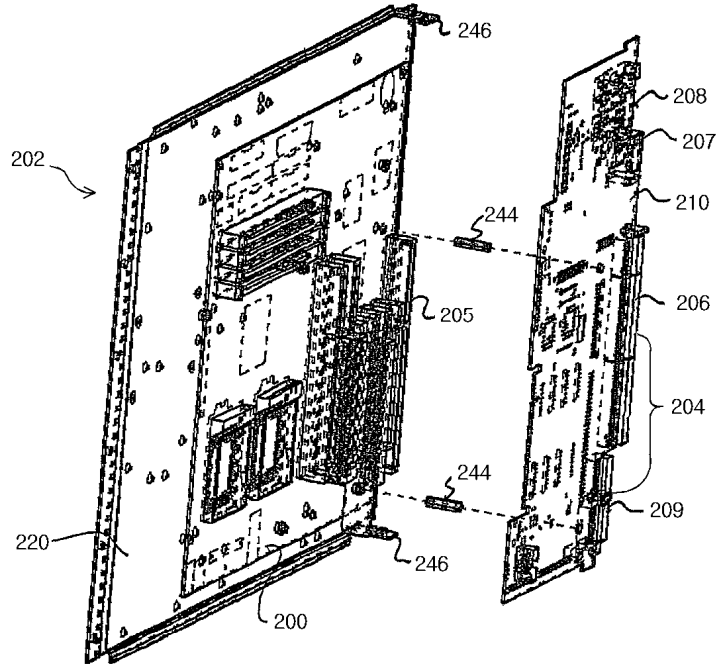




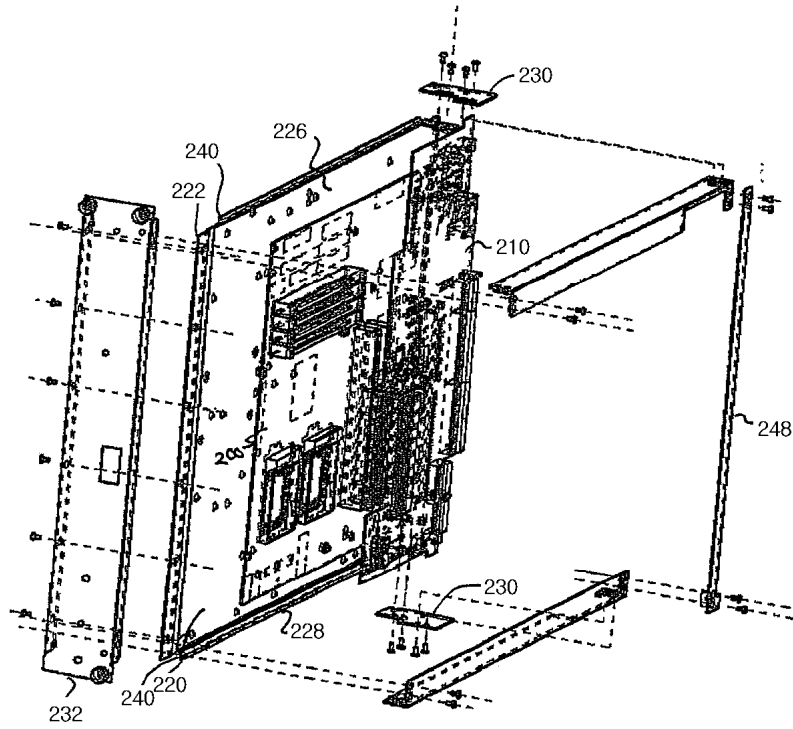
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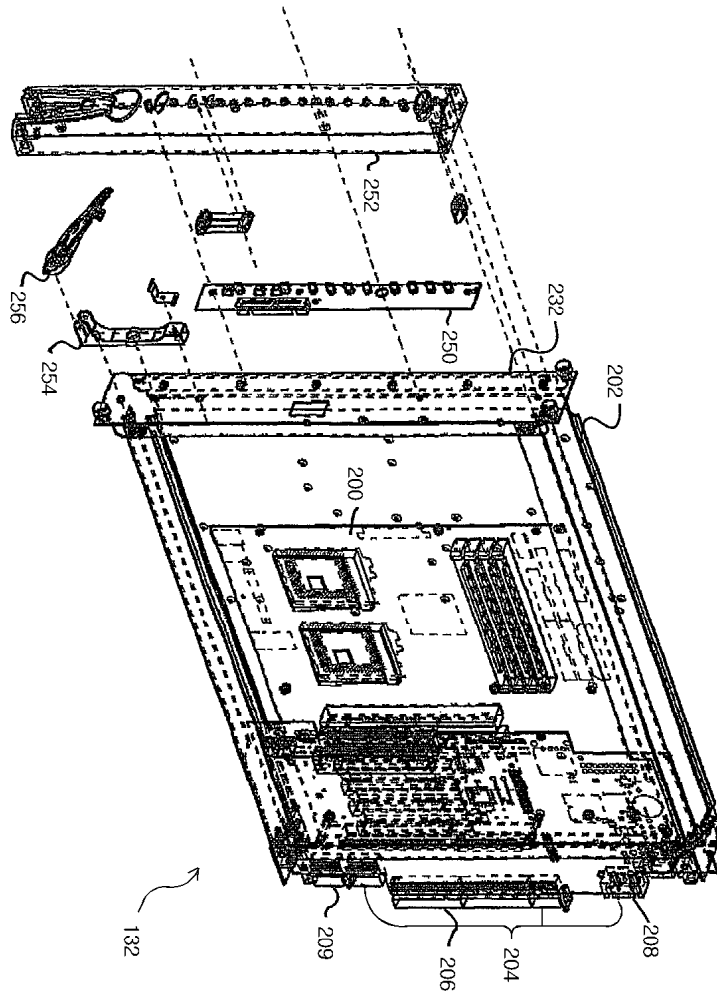
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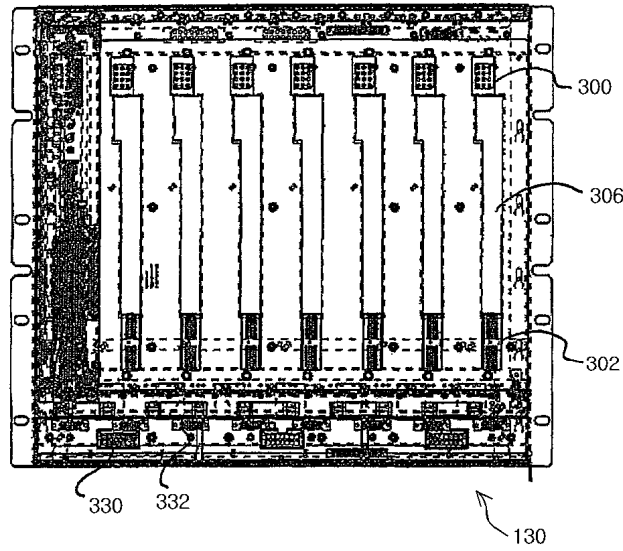
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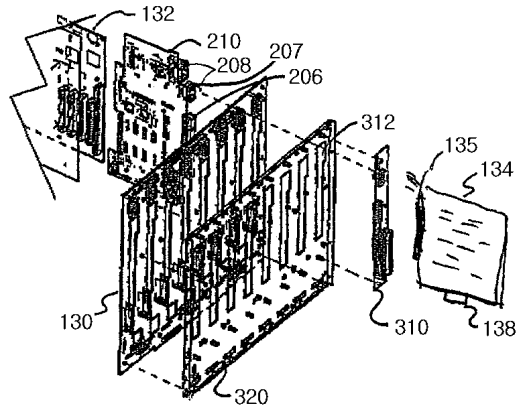
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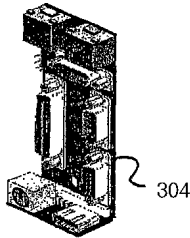
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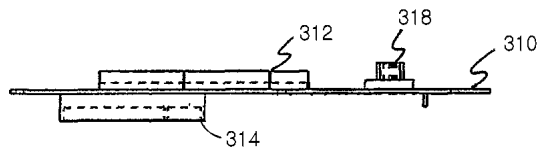
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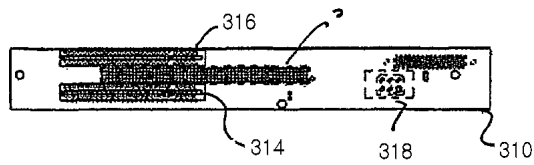
17



18



19



20

