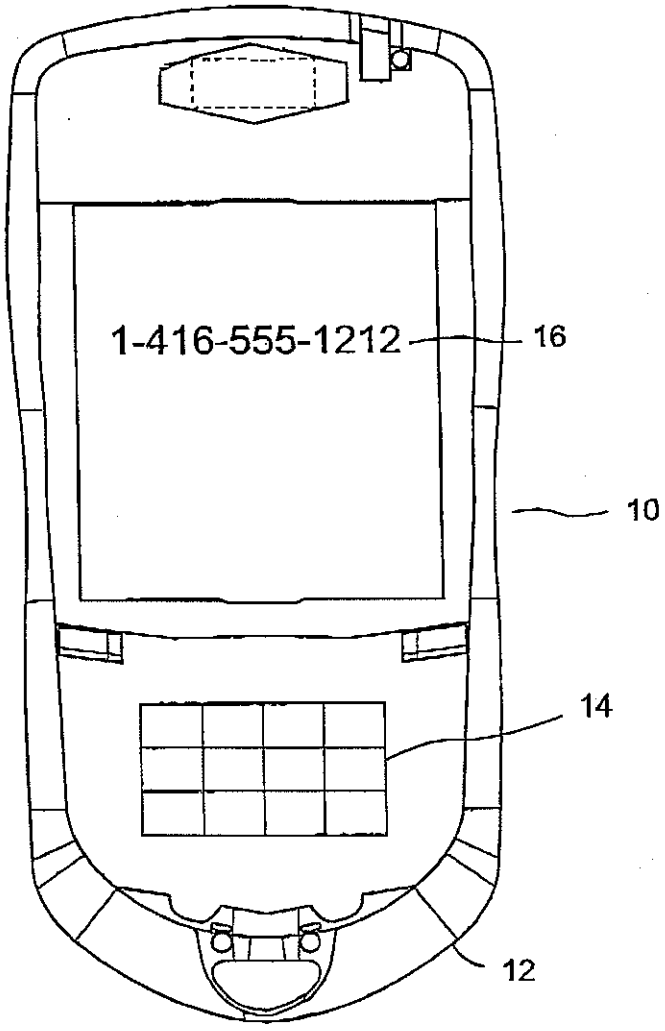


Figure 1

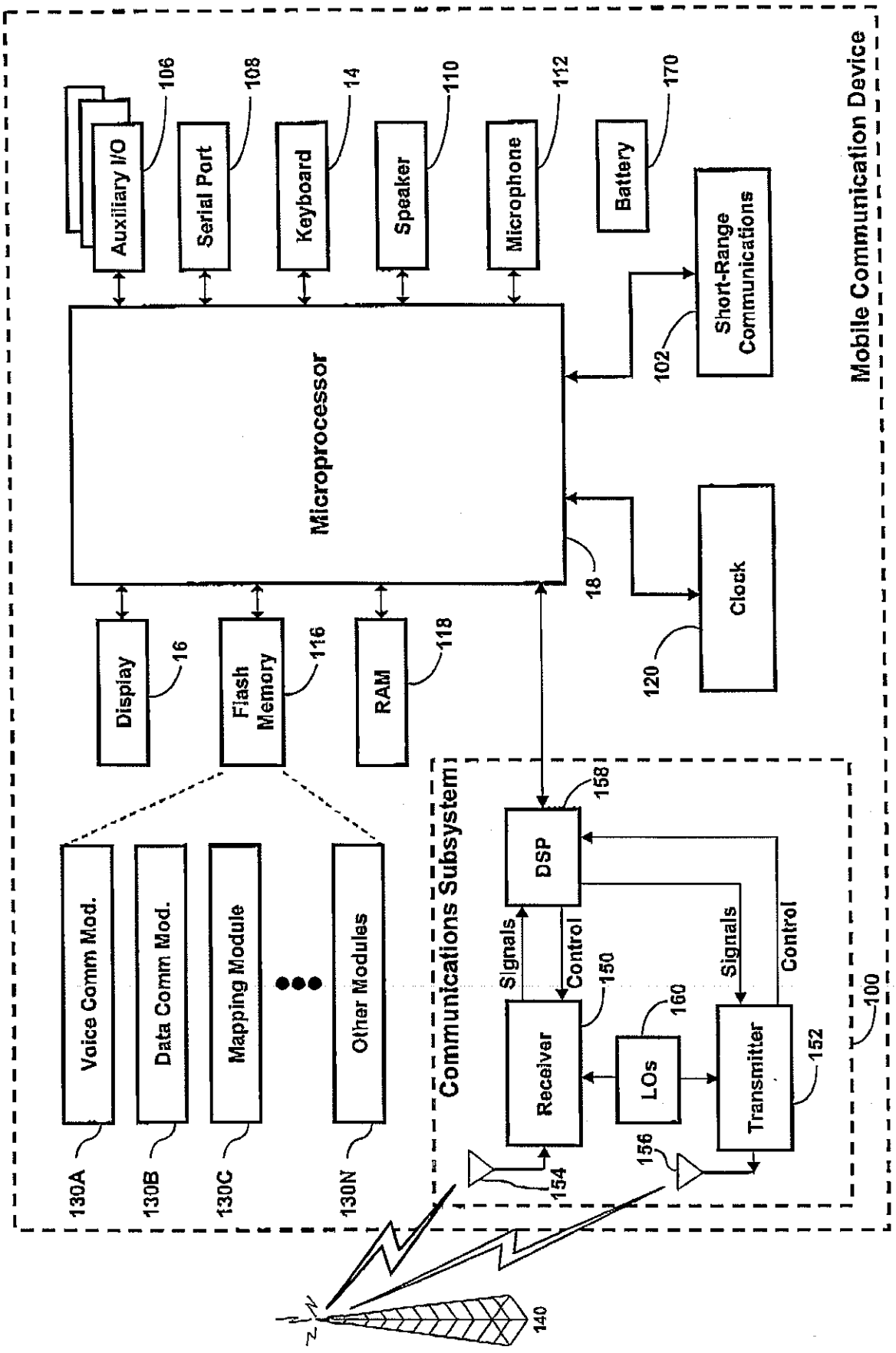

Mobile Communication Device
Auxiliary I/O
106
Serial Port
108
Keyboard
14
Speaker
110
Microphone
112
Battery
170
Short-Range Communications
102
Microprocessor
18
Clock
120
Display
16
Flash Memory
116
RAM
118
Communications Subsystem
DSP
158
Signals
Control
Receiver
150
LOs
160
Transmitter
152
100
154
156
140
Voice Comm Mod.
130A
Data Comm Mod.
130B
Mapping Module
130C
Other Modules
130N

Figure 2

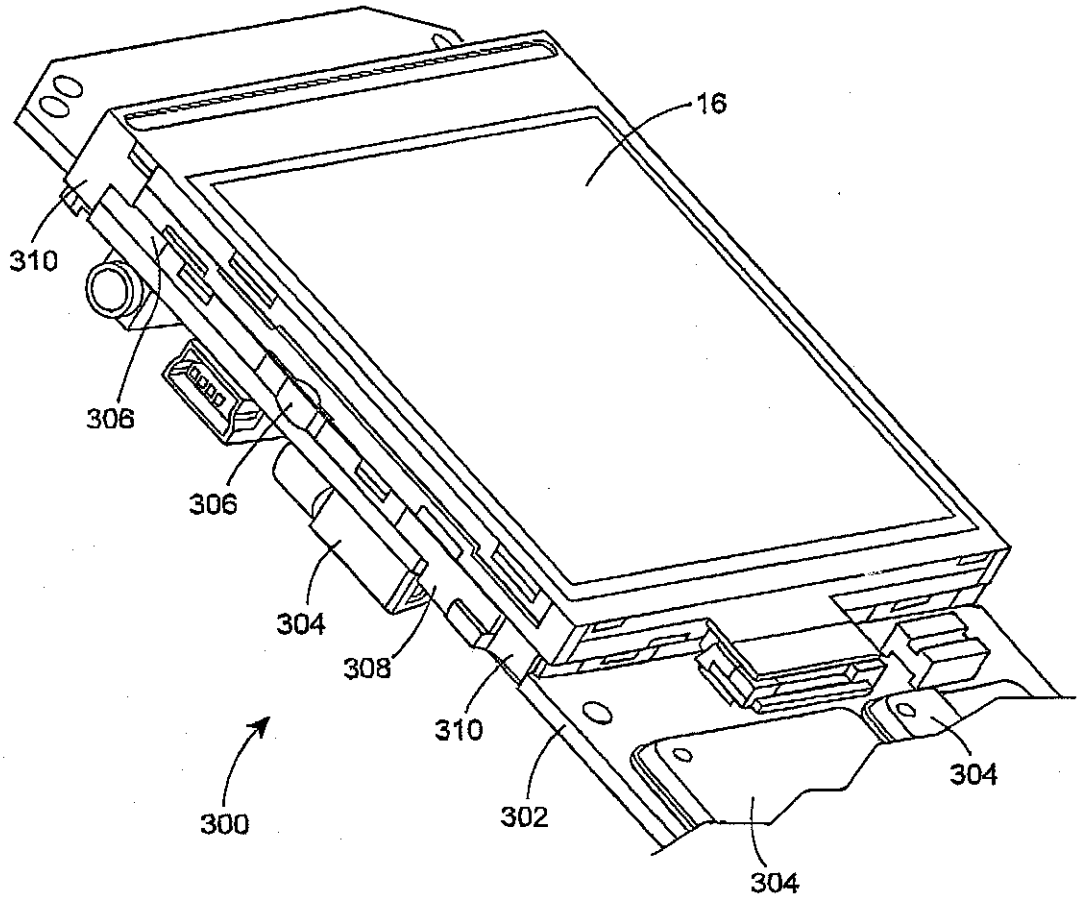


Figure 3

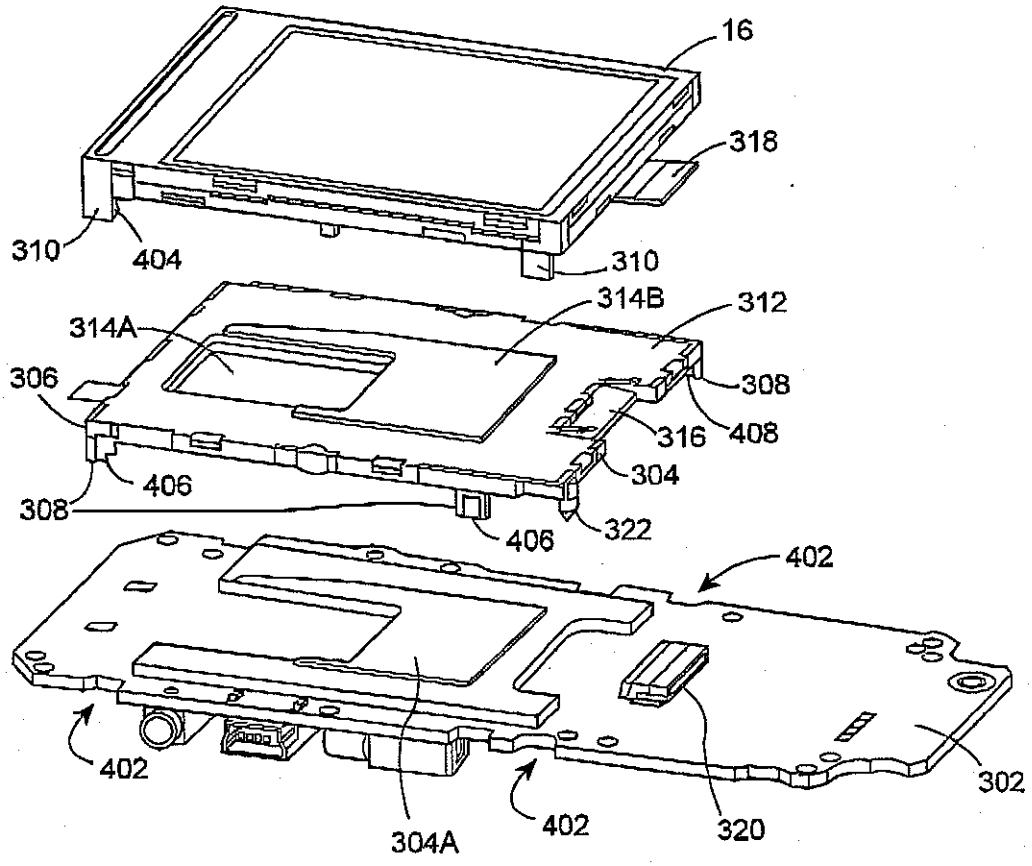

16
318
310
404
310
314B
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314A
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308
316
408
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406
308
406
322
402
402
304A
402
320
302

Figure 4

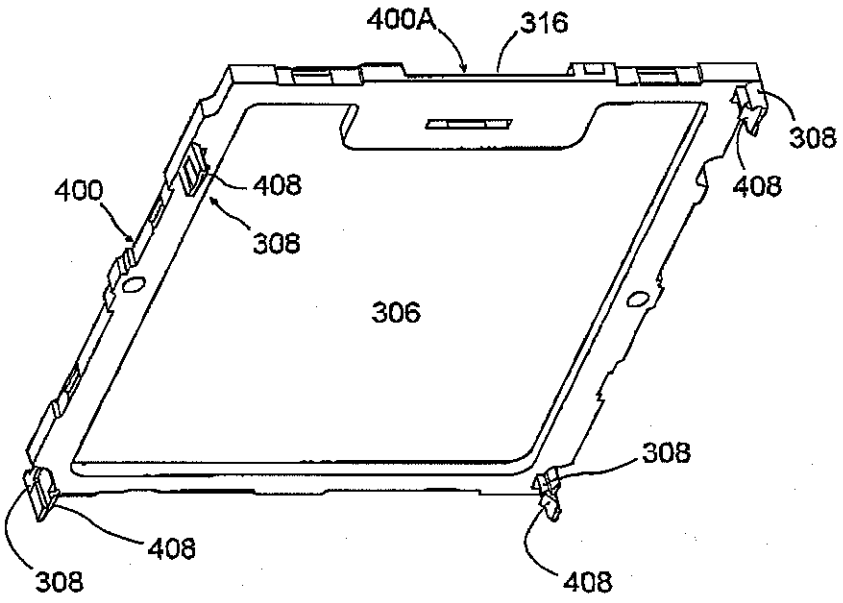


Figure 5A

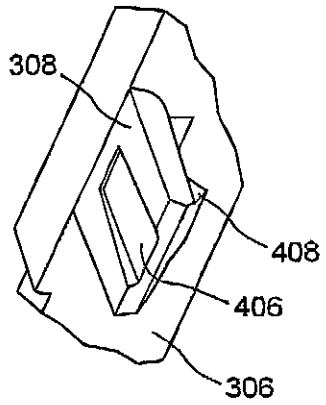


Figure 5B

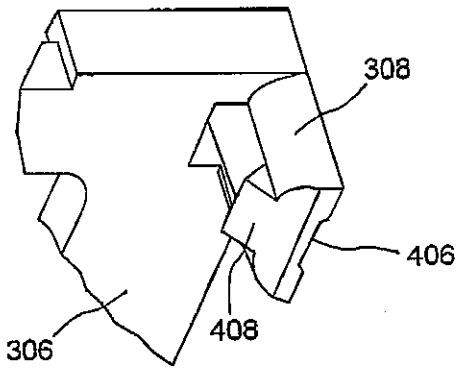


Figure 5C

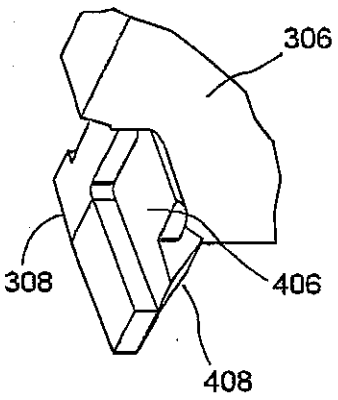


Figure 5D

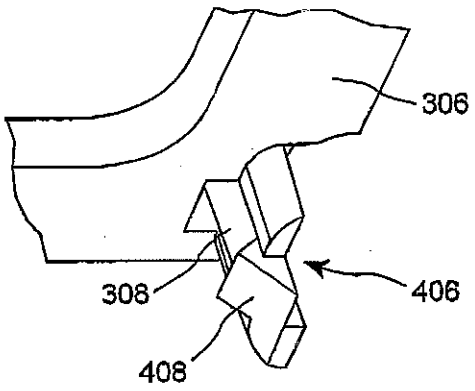


Figure 5E

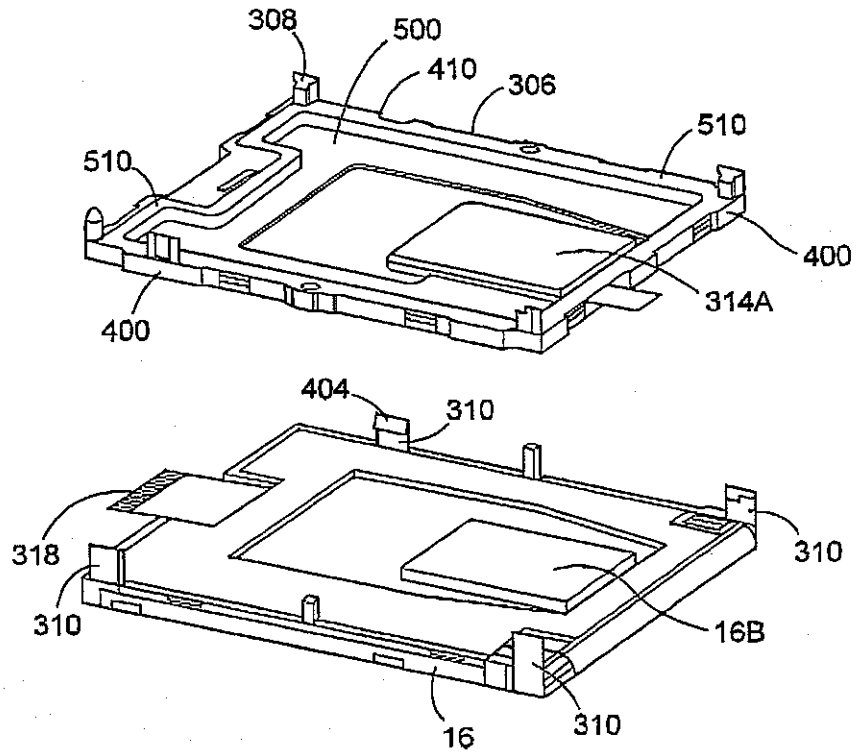

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Figure 6

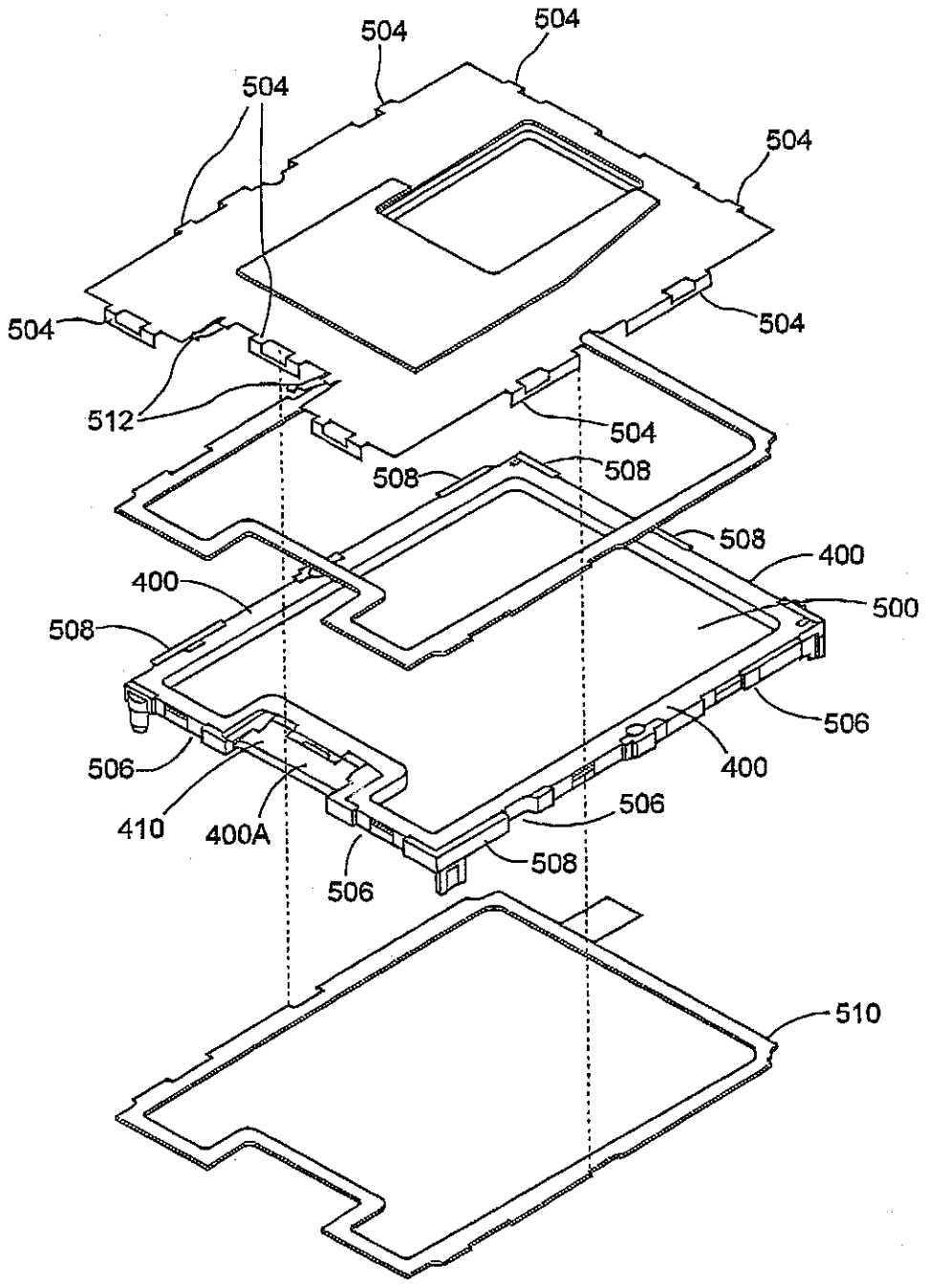

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Figure 7