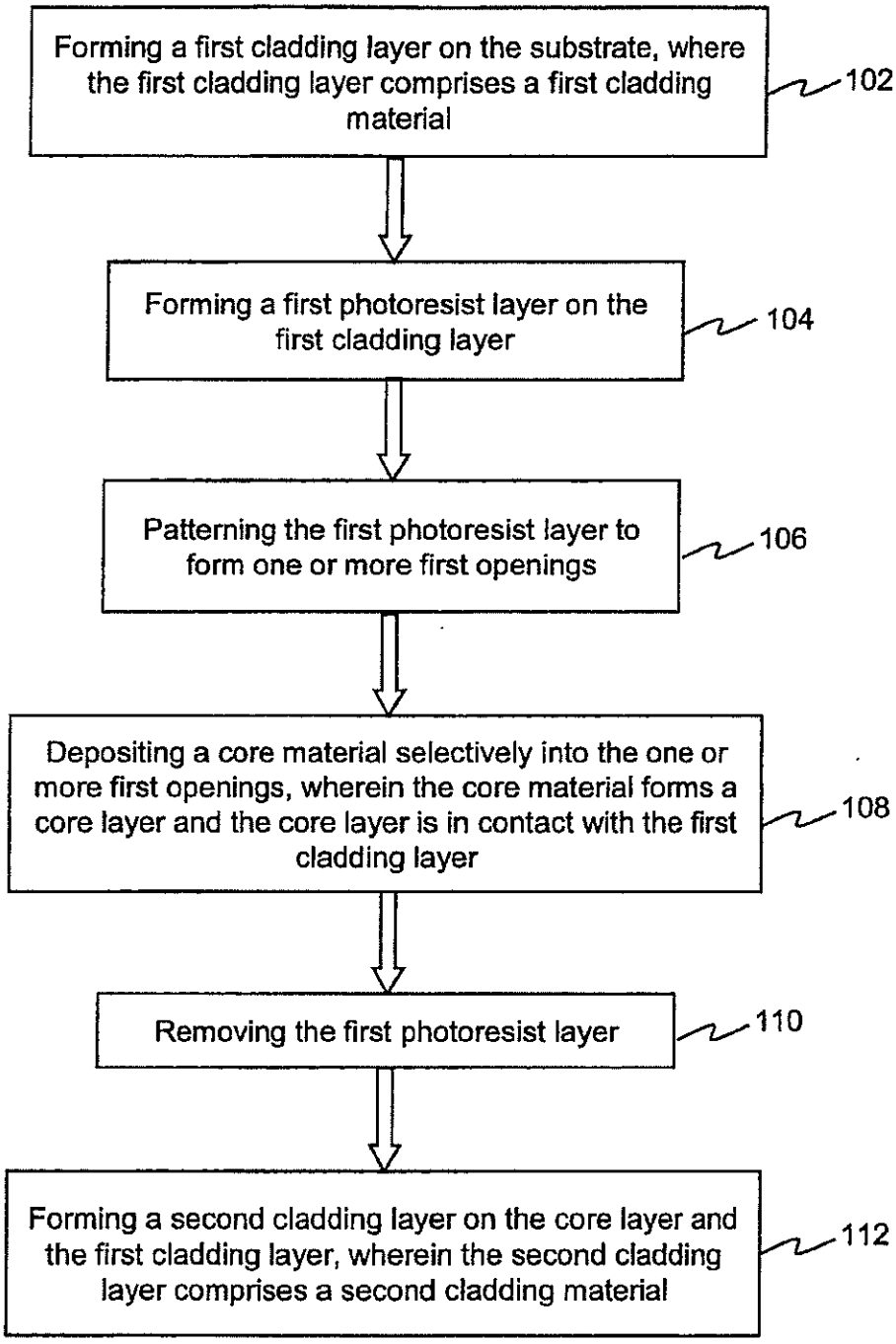

Forming a first cladding layer on the substrate, where the first cladding layer comprises a first cladding material
102
Forming a first photoresist layer on the first cladding layer
104
Patterning the first photoresist layer to form one or more first openings
106
Depositing a core material selectively into the one or more first openings, wherein the core material forms a core layer and the core layer is in contact with the first cladding layer
108
Removing the first photoresist layer
110
Forming a second cladding layer on the core layer and the first cladding layer, wherein the second cladding layer comprises a second cladding material
112

Fig. 1

Fig. 2A



Fig. 2B



Fig. 2C

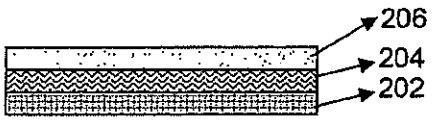


Fig. 2D

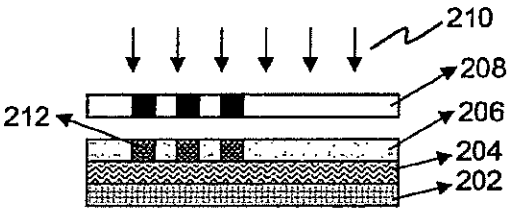


Fig. 2E

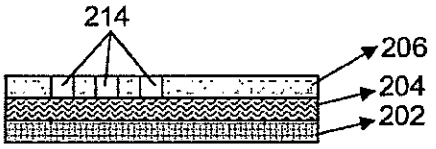


Fig. 2F

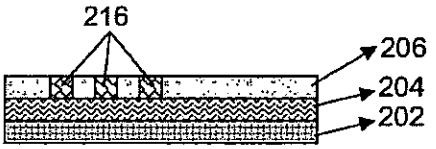


Fig. 2G

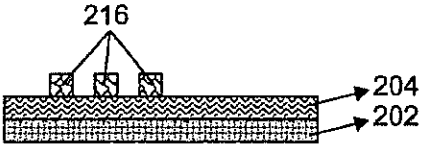
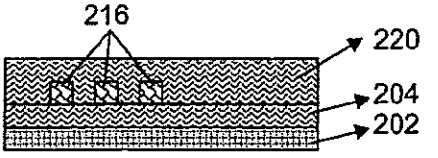


Fig. 2H



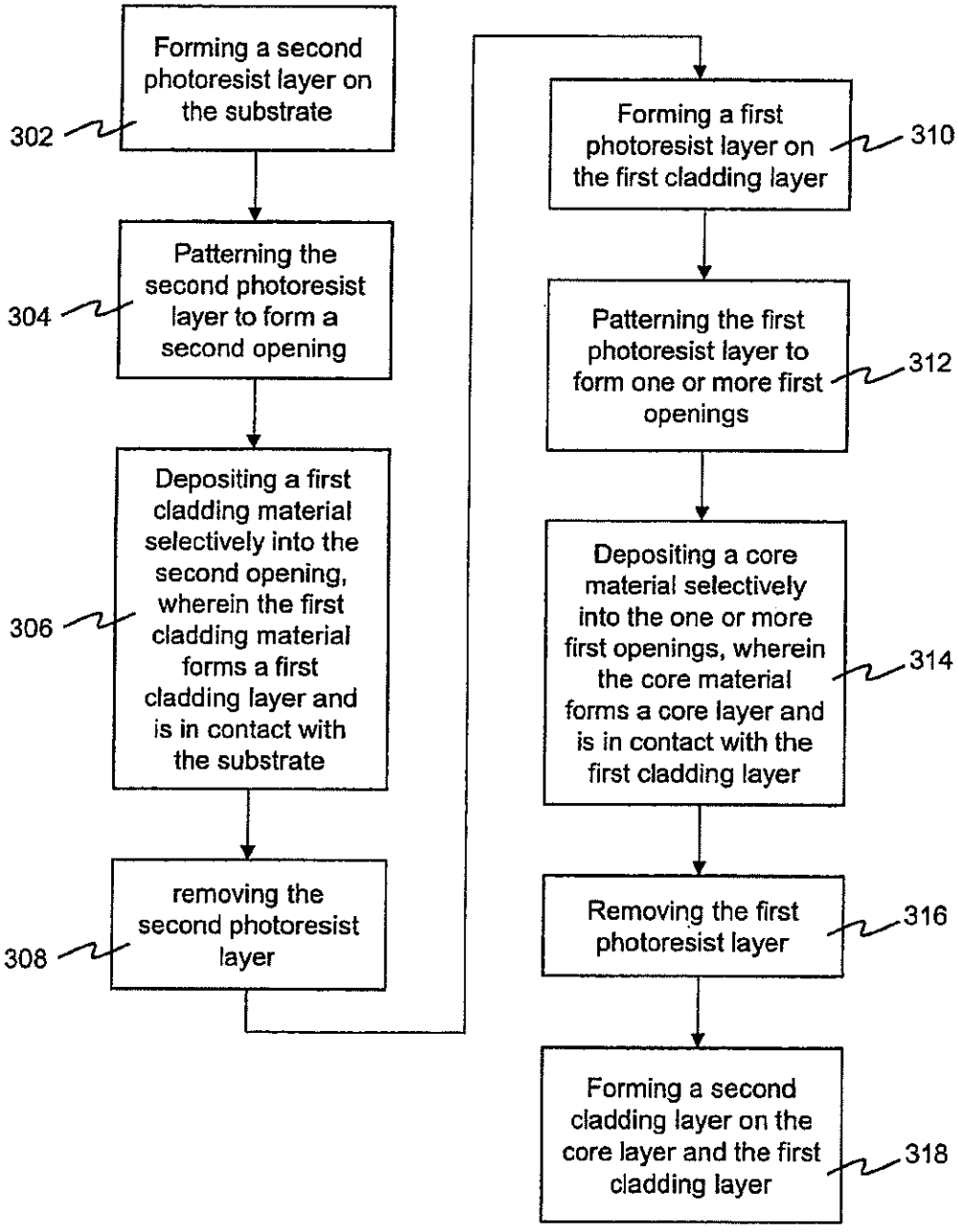

Forming a second photoresist layer on the substrate
302
Patterning the second photoresist layer to form a second opening
304
Depositing a first cladding material selectively into the second opening, wherein the first cladding material forms a first cladding layer and is in contact with the substrate
306
removing the second photoresist layer
308
Forming a first photoresist layer on the first cladding layer
310
Patterning the first photoresist layer to form one or more first openings
312
Depositing a core material selectively into the one or more first openings, wherein the core material forms a core layer and is in contact with the first cladding layer
314
Removing the first photoresist layer
316
Forming a second cladding layer on the core layer and the first cladding layer
318

Fig. 3

Fig. 4A



Fig. 4B

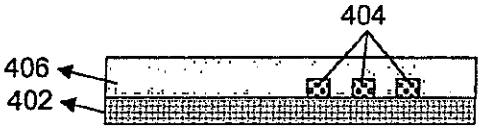


Fig. 4C

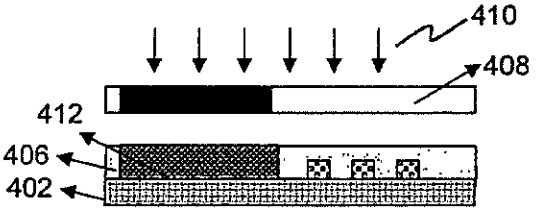


Fig. 4D

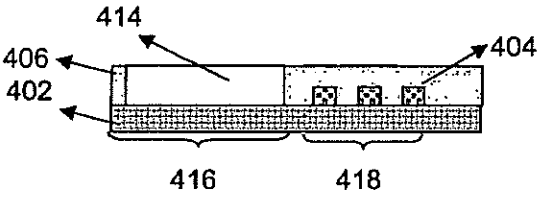


Fig. 4E

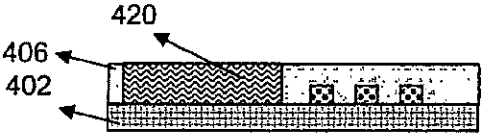


Fig. 4F

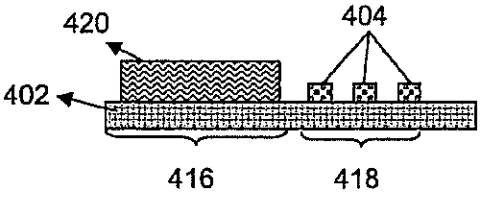


Fig. 4G

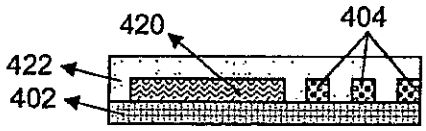


Fig. 4H

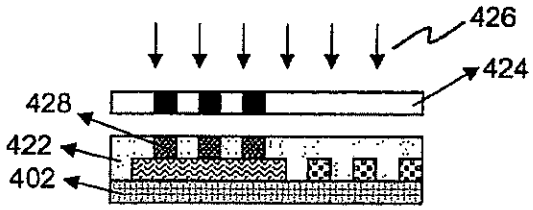


Fig. 4I

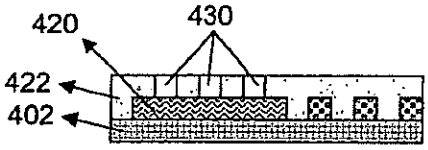


Fig. 4J

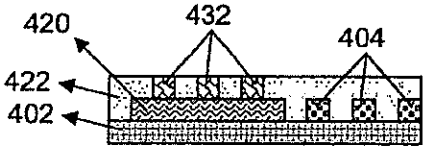


Fig. 4K

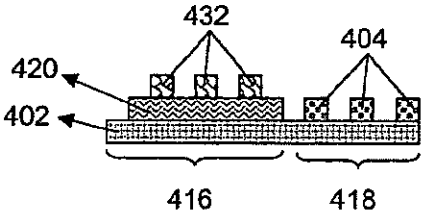


Fig. 4L

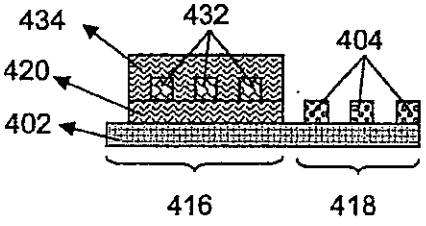


Fig. 5A

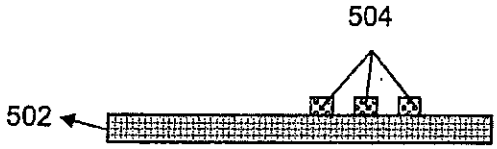


Fig. 5B

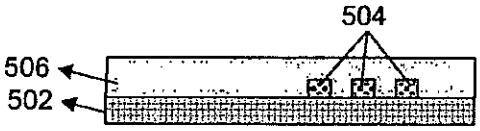


Fig. 5C

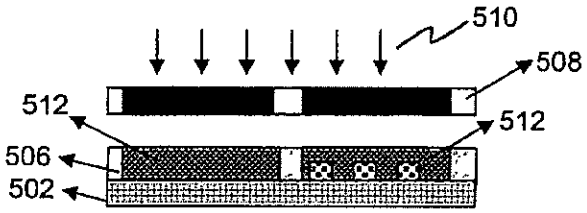


Fig. 5D

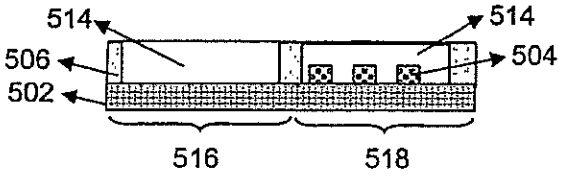


Fig. 5E

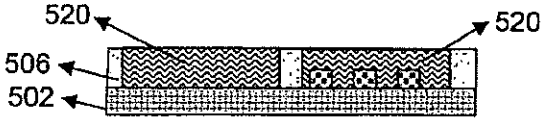


Fig. 5F

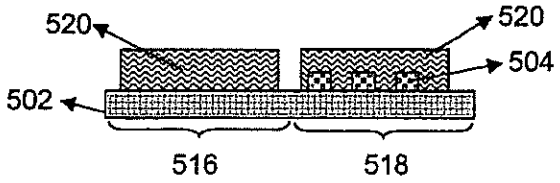


Fig. 5G

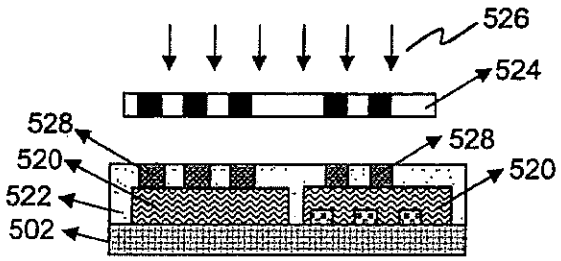


Fig. 5H

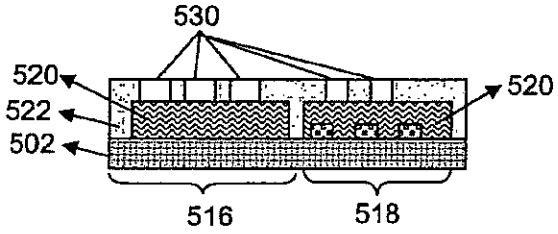


Fig. 5I

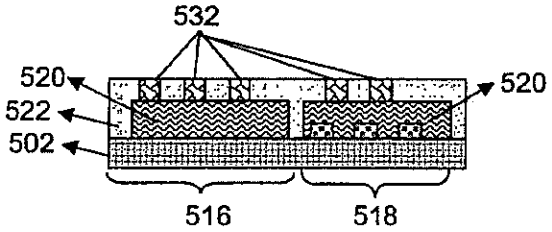


Fig. 5J

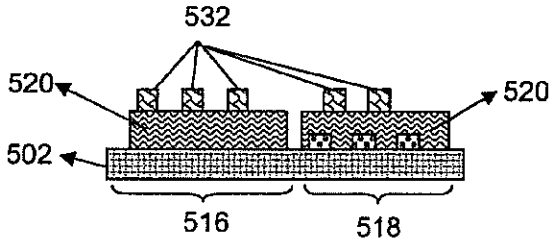


Fig. 5K

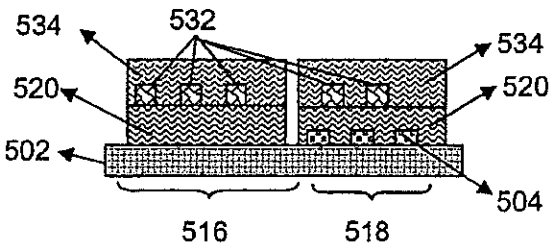


Fig. 6A

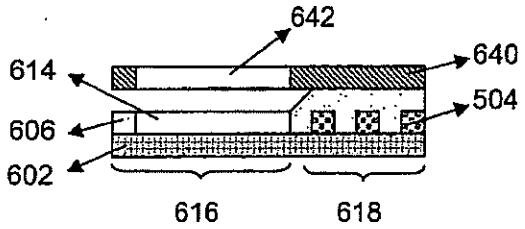


Fig. 6B

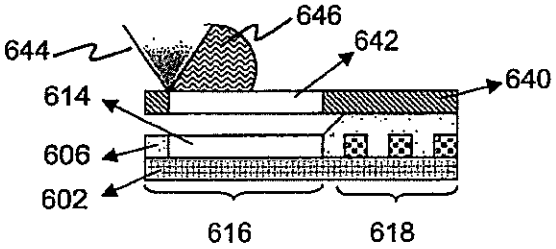


Fig. 6C

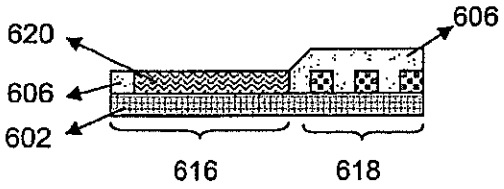


Fig. 6D

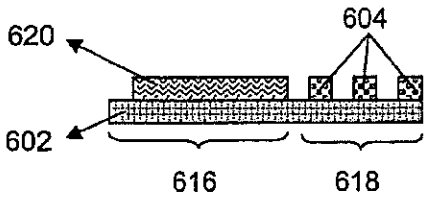


Fig. 7A

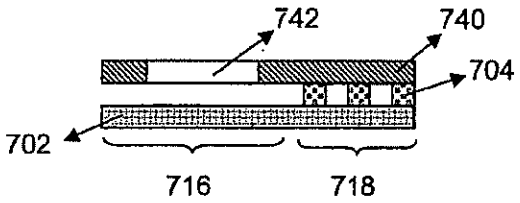


Fig. 7B

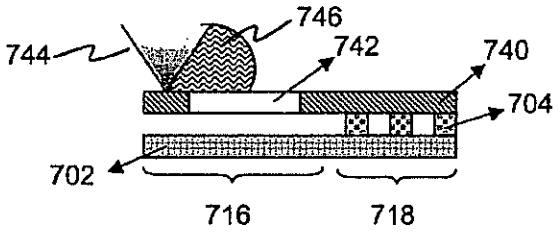
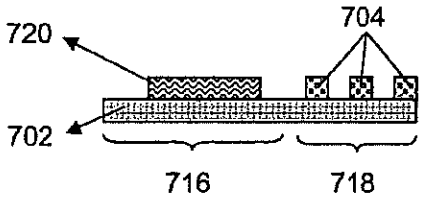


Fig. 7C



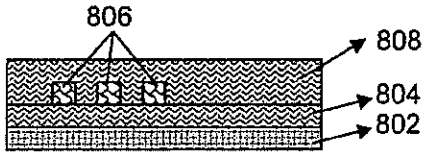


Fig. 8

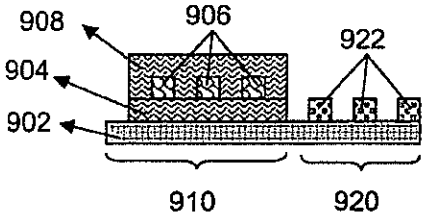


Fig. 9