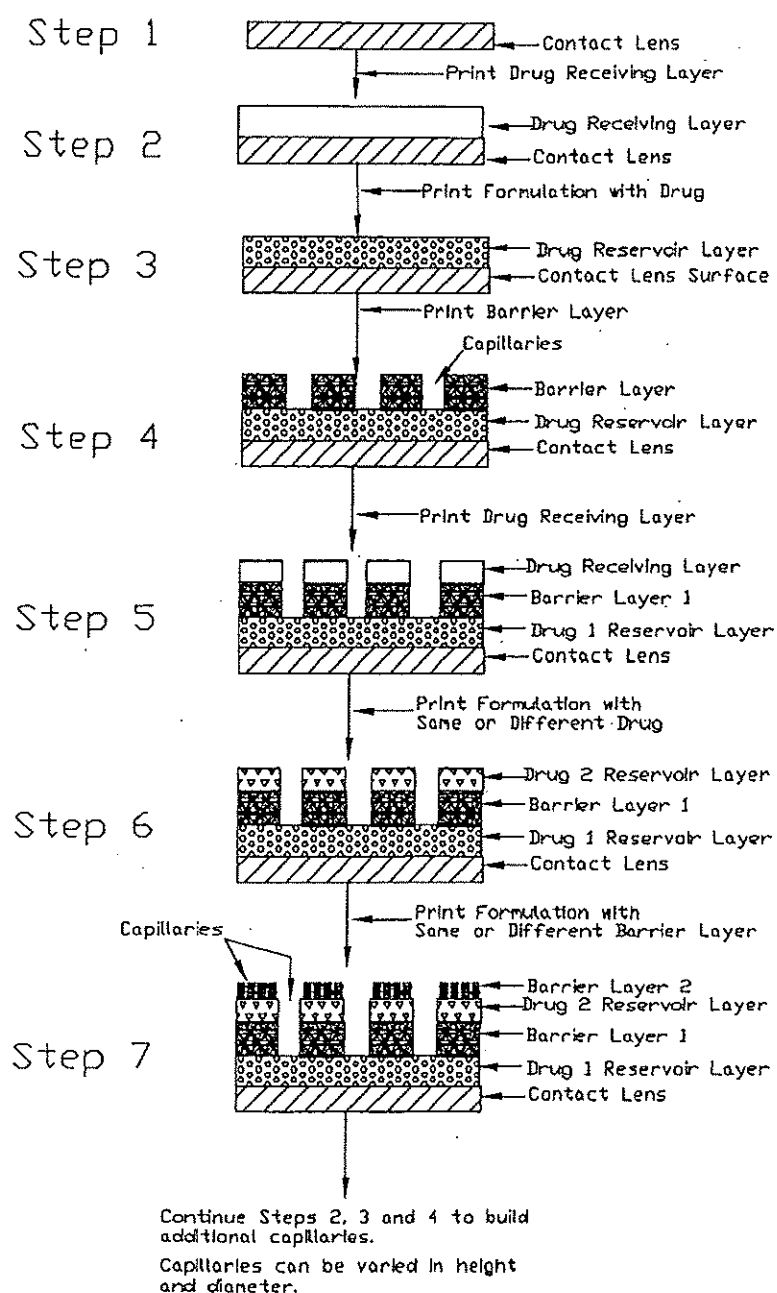


1 / 8

Figure 1

# Printing of 3D Structures for Modulation of Drug Release



2 / 8

Figure 2

Barrier Layers  
 ( Varying diffusion rates and thicknesses )

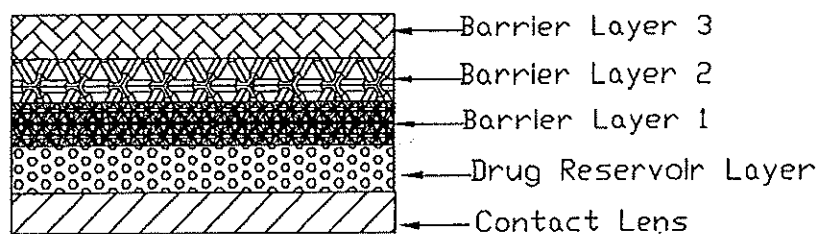
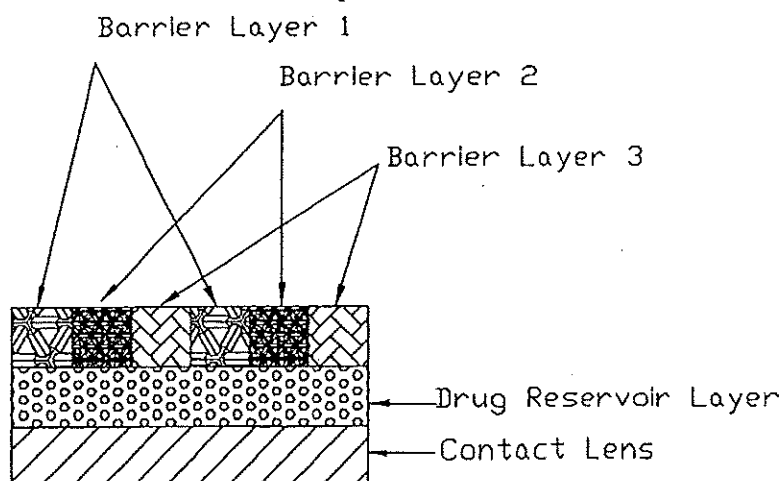


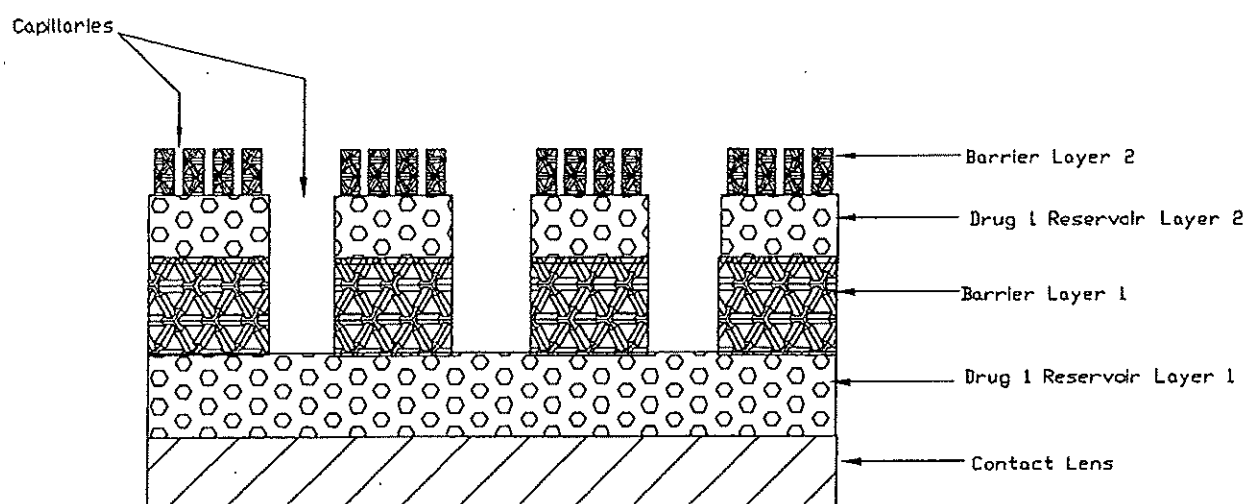
Figure 3

Barrier Layers  
 ( Varying diffusion rates and thicknesses )



3 / 8

Figure 4  
3D Structure for Modulating  
Drug Release Rate



4 / 8

Figure 5  
Using Drug Receiving Layer  
for Drug Reservoir

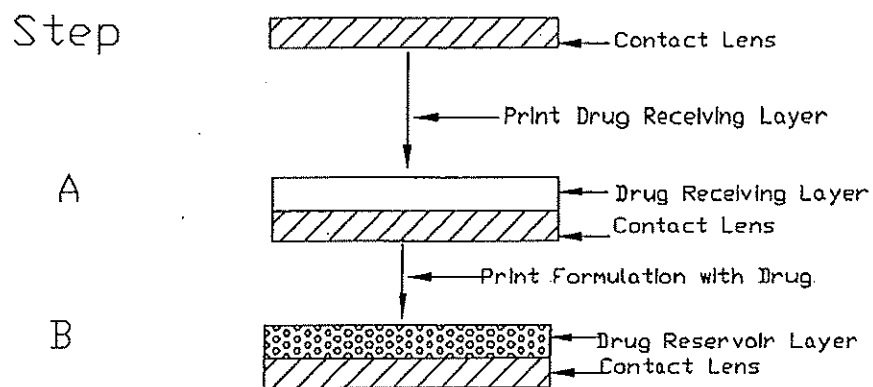
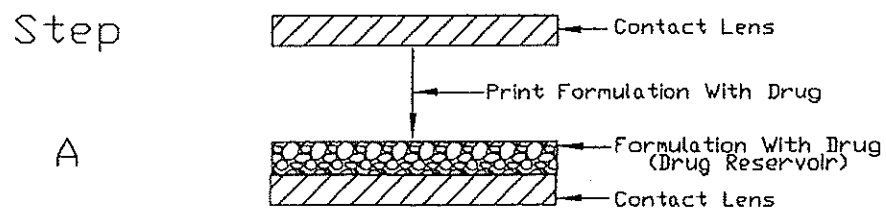
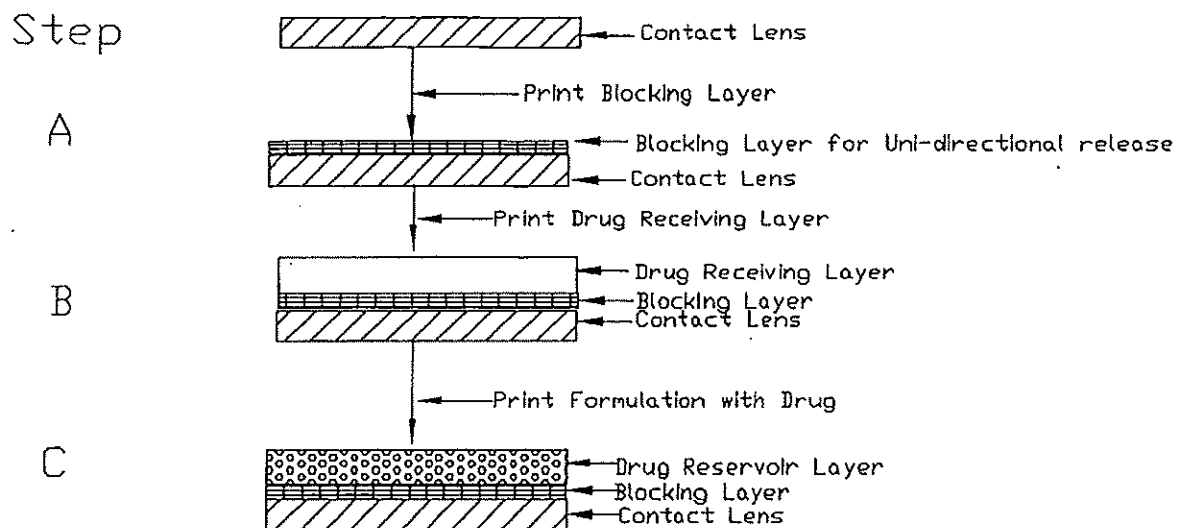


Figure 6  
Printable Drug Reservoir



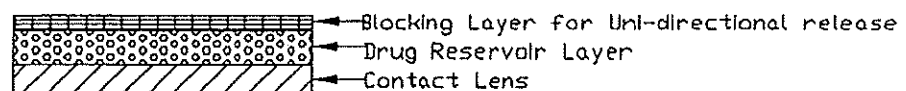
5 / 8

Figure 7  
Uni-directional Drug Release



Drug Release Away From the Lens

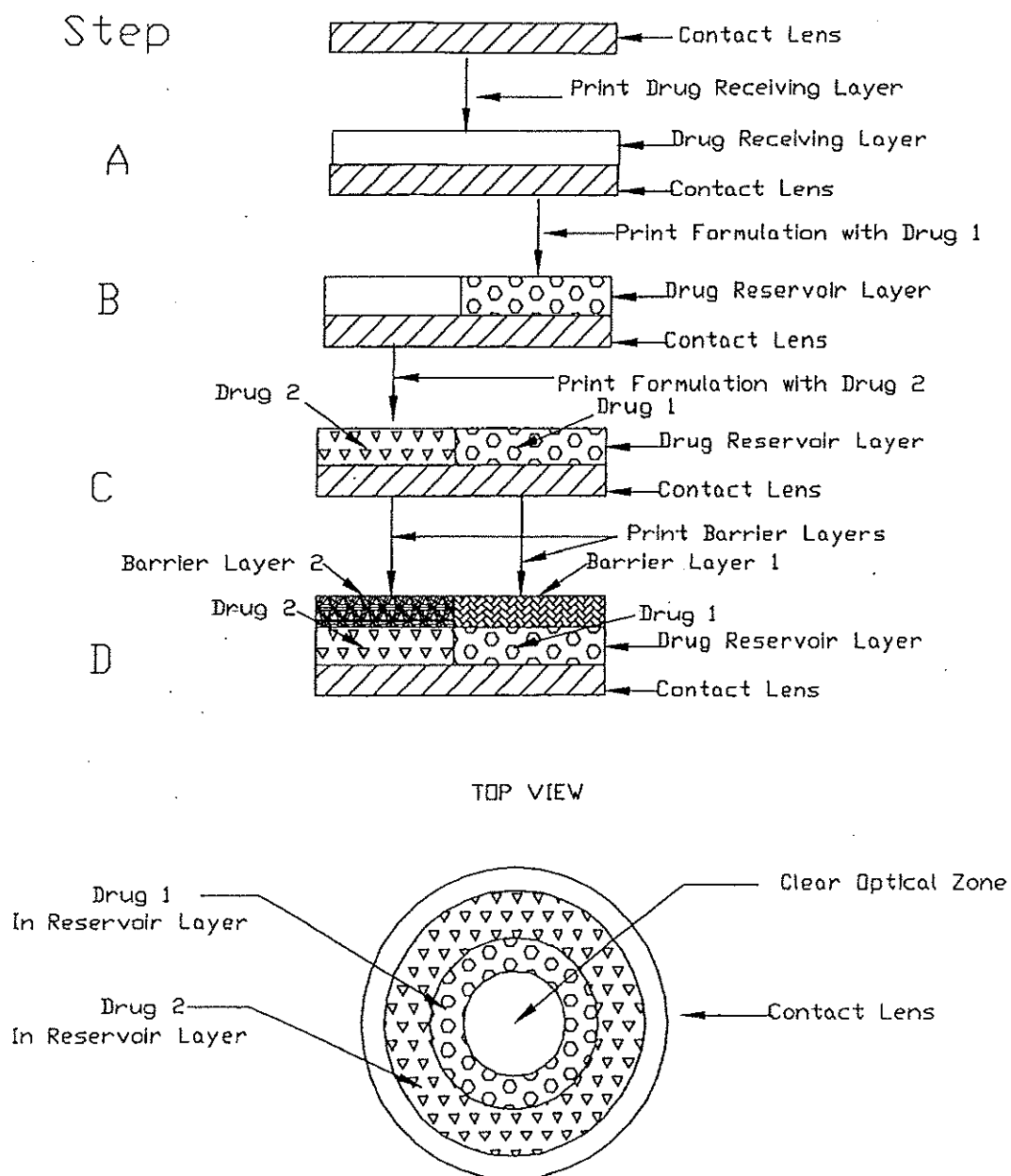
Or Conversely



Drug Release Through the Lens

6 / 8

Figure 8  
Multiple Drugs In Release Layer



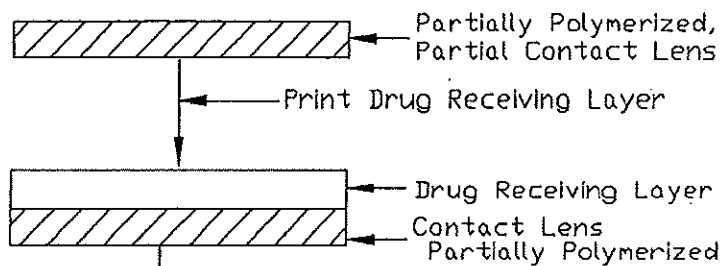
7 / 8

Figure 9

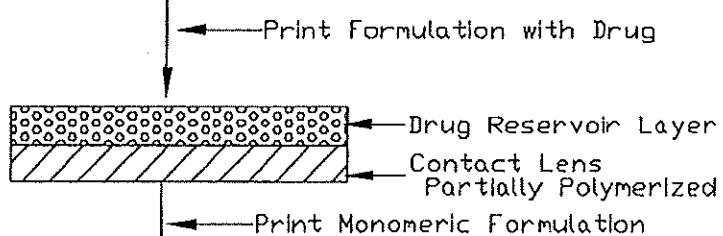
Use of Digital Printing for Embedding  
Drug inside the Contact Lens

Step

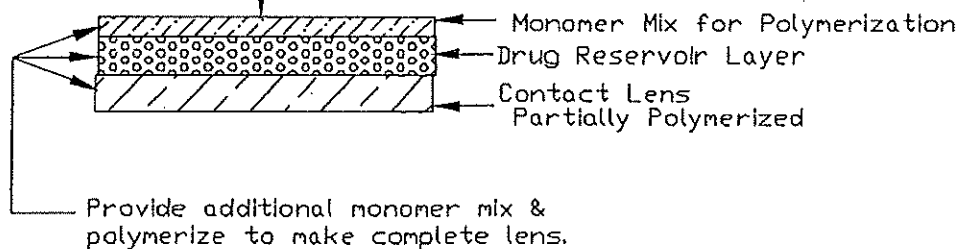
A



B



C



8 / 8

# Examples of Different 3D Structures to Modulate Drug Release Rate

Figure 10

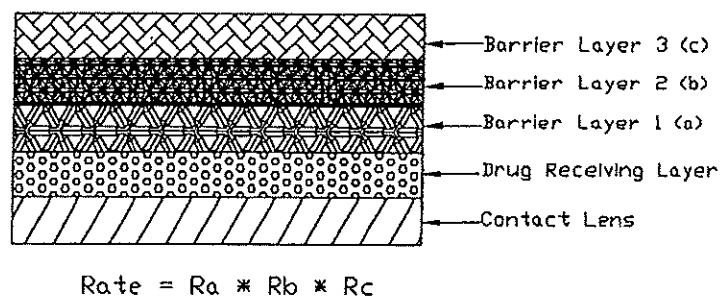


Figure 11

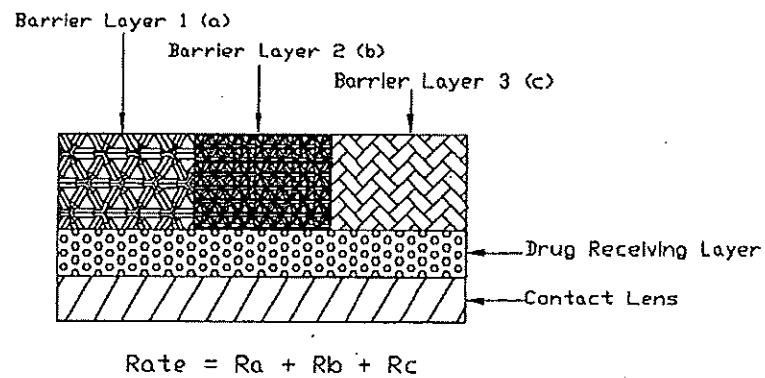


Figure 12

