3D Printed Intravaginal Rings for Delivery of Therapeutics and Contraceptives

Technology #16-0021

Using state-of-the-art 3D printing technology, intravaginal rings (IVRs) have been fabricated in a way that cannot be achieved with conventional engineering. IVRs can be used for the delivery of therapeutics including contraceptives. Traditional IVR manufacturing uses injection molding or hot-melt extrusion and complex multistep processes to make reservoir IVRs. 3D printing technology allows for flexibility in starting materials.

Advantages:

• Cost effective production process

• Wide range of starting materials

• Ability to integrate multiple drugs in one ring to design multipurpose IVRs
Inventors

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