

and a drug contained in the drug reservoir lumen, wherein the first material of the first wall structure is impermeable to the drug, and the second material of the second wall structure is permeable to the drug, wherein the first wall structure forms a cylindrical wall of a tube and the second wall structure is an end wall disposed at at least one end of the tube, and wherein the durometer of each of the first and second materials is selected to make the device compliant within the cavity of the bladder of a patient.

In one example, implantable drug delivery devices are provided, including a housing having a closed drug reservoir lumen bounded by a first wall structure and a hydrophilic second wall structure, and a drug contained in the drug reservoir lumen, wherein the first

Claims

We claim:

1. A drug delivery device comprising:
 - a housing having a closed drug reservoir lumen bounded by a first wall structure constructed of a first material and a hydrophilic second wall structure constructed of a second material; and
 - a drug contained in the drug reservoir lumen,
 - wherein the first material of the first wall structure is impermeable to the drug, and the second material of the second wall structure is permeable to the drug,
 - wherein the first wall structure forms a cylindrical wall of a tube and the second wall structure is an end wall disposed at at least one end of the tube, and
 - wherein the durometer of each of the first and second materials is selected to make the device compliant within the cavity of the bladder of a patient.
2. The device of claim 1, wherein the device is configured for intravesical insertion and retention.
3. The device of claim 2, wherein the device is elastically deformable between a relatively straightened shape suited for insertion through the urethra of a patient and into the patient's bladder and a retention shape suited to retain the device within the bladder.
4. The device of claim 3, further comprising a retention frame lumen and a retention frame disposed therein.
5. The device of claim 1, wherein the first wall structure comprises silicone.
6. The device of claim 1, wherein the second wall structure comprises a thermoplastic polyurethane.
7. The device of claim 1, wherein the second wall structure is in the form of a disk stabilized in a lumen of the cylindrical tube.

8. The device of claim 7, wherein the disk is sandwiched between an inner washer and an outer washer.
9. The device of claim 1, wherein the drug is in the form of one or more solid drug units.
10. The device of claim 1, wherein the drug is a low solubility drug.
11. The device of claim 1, wherein the drug is a high solubility drug.
12. The device of claim 1, wherein the drug comprises lidocaine, gemcitabine, docetaxel, carboplatin, cisplatin, oxaliplatin, trospium, tolterodine, oxybutynin, or mitomycin C.