

## A PROBE DEVICE AND A METHOD OF FABRICATING THE SAME

### ABSTRACT

5 According to embodiments of the present invention, a probe device is provided. The probe device includes a flexible probe that is implantable into a biological tissue, a rigid carrier, and a biodegradable material received in a recess defined between the flexible probe and the rigid carrier, the biodegradable material bonding the flexible probe and the rigid carrier to each other, wherein the biodegradable material is dissolvable in the  
10 biological tissue such that the flexible probe and the rigid carrier are separable and the rigid carrier is removable from the biological tissue, and wherein the biodegradable material is capable of drug delivery upon dissolution. According to further embodiments of the present invention, a method of fabricating a probe device is also provided.

15 Figure 2A