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(54) **PHOTODEGRADABLE SAMPLE COLLECTION SYSTEM AND METHOD**

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(58) **Field of Classification Search**

None

See application file for complete search history.

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(57) **ABSTRACT**

A method includes providing a biological sample, providing a sample collection device, wherein the sample collection device includes a sample binding surface including a photodegradable polymer configured to bind the biological sample, contacting the biological sample with the sample binding surface of the sample collection device, and irradiating the sample binding surface and the bound biological sample using light emitted from a light source to initiate degradation of the photodegradable polymer of the sample binding surface to cause release of the biological sample.

8 Claims, 12 Drawing Sheets