

(12) **United States Patent**  
**Fletcher et al.**

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(54) **BIOLOGICAL FLUID SAMPLING DEVICE**

210/321.65; 530/390.5, 414, 417, 427;  
251/149.1, 149.6; 422/44

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See application file for complete search history.

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**Related U.S. Application Data**

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(57) **ABSTRACT**

(51) **Int. Cl.**  
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**A61B 5/15** (2006.01)  
(Continued)

A biological fluid sampling device adapted to receive a blood  
sample and includes a housing having a reservoir disposed  
therein and a first cavity in fluid communication with the  
reservoir is disclosed. The biological fluid sampling device  
includes a first test element removably receivable within the  
first cavity and a lancet having a puncturing element. Addi-  
tionally, the housing may include a second cavity in fluid  
communication with the reservoir and a second test element  
removably receivable within the second cavity. With the  
blood sample received within the reservoir of the biological  
fluid sampling device, the first test element and the second test  
element are adapted to receive a portion of the blood sample.  
In this manner, the biological fluid sampling device allows for  
a blood sample to be collected on a plurality of test elements  
simultaneously. In one embodiment, the biological fluid sam-  
pling device contains a sample stabilizer.

(52) **U.S. Cl.**  
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(58) **Field of Classification Search**  
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G01N 33/491; G01N 1/28; A61M 1/34  
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**21 Claims, 8 Drawing Sheets**

