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(54) Title: BIO-NANO-CHIPS FOR ON-SITE DRUG SCREENING

(57) Abstract: A bio-nano-chip (BNC) technology that works in connection with non-invasive samples, such as saliva, cheek swab or urine samples that can be easily performed by non-specialists, such as security personnel and police officers is disclosed. The microfluidic system for drug testing includes an analyzer or reader having a housing containing a slot for receiving a cartridge, a drug testing cartridge, a processor having a user interface, an optical or energy sensing means, and a means for moving fluid.