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Disposable Hand-Held Device for Collection of Exhaled Breath Condensate

Kline, Jeffrey A.



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Abstract:

A breath condensate collection apparatus comprising a central chamber, a breath input assembly, a plunger assembly and a breath condensate collection port. The central chamber has inner and outer side walls with a coolant material sealed in between. The breath input assembly is disposed on the side of the central chamber in fluid communication with the chamber interior. The plunger assembly has a piston, slidably disposed in the chamber, and a handle extending from a first end of the chamber. The collection port is disposed at the second end of the central chamber in fluid communication with the interior of the chamber. Obstructive structures may be arranged in the chamber interior for increasing the surface area on which condensate may form. The apparatus may also include an outlet assembly that may be removed and replaced with a sampling well into which the condensate may be washed with a buffer solution.

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