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(74) Agents: BAUM, Allen, R. et al.; Hutchison Law Group
LLC, P.O. Box 31686, Raleigh, NC 27612 (US).

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(71) Applicant (*for all designated States except US*): GILERO, LLC. [US/US]; 2530 Meridian Parkway, Durham, NC 27713 (US).

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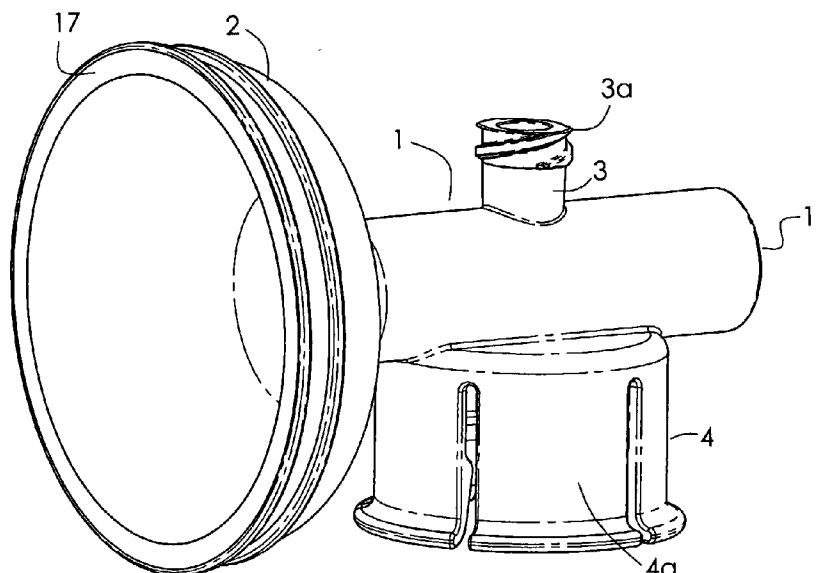
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): MOSLER, Theodore, J. [US/US]; 5433 Alafia Court, Raleigh, NC 27616 (US). PETERS, Bryan, J. [US/US]; 7941 Oak Estate St., Apt. 215, Raleigh, NC 27617 (US). JARNA-GIN, Scott, P. [US/US]; 433 Guilford Circle, Raleigh, NC 27608 (US).

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(54) Title: VENTED SAFE HANDLING VIAL ADAPTER



(57) Abstract: A vial adapter is described comprising a housing, the housing comprising an expandable chamber to contain a volume, an internal passage in communication with the expandable chamber, at least one opening in communication with the internal passage, and an access member integral with the housing. A hollow spike comprising a proximal end is integral with the housing and a distal end. The spike comprises a vent lumen open at the distal end and a fluid lumen open at the distal end, the vent lumen is in communication with the internal passage and the fluid lumen is in communication with the access member. A first check valve restricts communication from the expandable chamber to the internal passage, and a second check valve restricts communication from the internal passage to the opening. Methods of reconstituting and/or withdrawing hazardous material using the vial adapter are described.

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