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10028 (US). **PILCHER, Brian, K**; 1411 Rodessa Run,
Raleigh, NC 27607 (US).

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(74) Agent: **WOJCIO, Richard, A., Jr.**; 604 E. 4th Street, Suite
201, Fort Worth, TX 76102 (US).

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(71) Applicant: **CRYOCURE LLC** [US/US]; 1411 Rodessa
Run, Raleigh, NC 27607 (US).

(72) Inventors: **GRAIVER, Miles**; 115 Grogans Landing, At-
lanta, GA 30350 (US). **HILL, Brian, G.**; 6708 South Pine
Court, Palm Beach Gardens, FL 33418 (US). **HILL, David,
A.**; 4065 Breckenridge Court, Alpharetta, GA 30005 (US).
LORENC, Z., Paul; 983 Park Avenue, New York, NY

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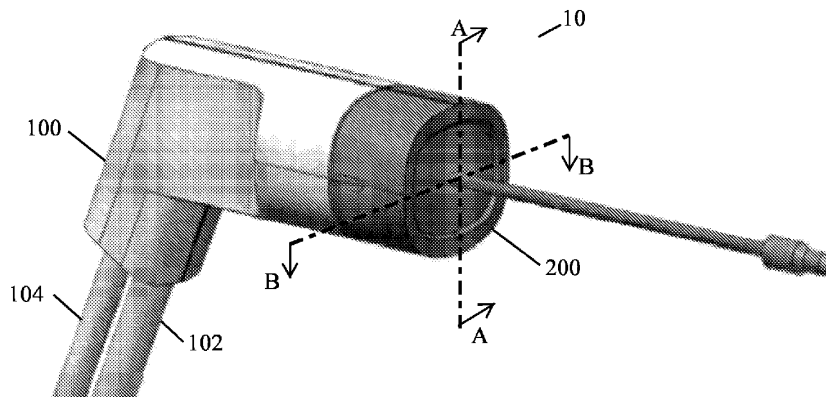


Figure 1

(57) Abstract: Improved cryoneedle designs and methods for using the same are presented. According to the embodiments disclosed herein, an improved cryoneedle may comprise a handle configured to connect to one or both of a cryogen supply line and exhaust line. The handle may be configured to detachably couple to a needle attachment comprising an inner lumen and outer sheath operatively coupled to receive cryogen fluid flow from the cryogen source when the needle attachment is coupled to the handle for use to perform intralesional cryotherapy. In certain embodiments, the needle assembly may be configured to be removable, disposable, or to prevent its reuse in more than one cryotherapy procedure. Additionally, or alternatively, an improved cryoneedle may comprise an inner lumen implemented with apertures along its length. Further, an improved cryoneedle may additionally, or alternatively, comprise an outer sheath having a solid-body tip.

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