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(71) Applicant: **GLOBAL LIFE SCIENCES SOLUTIONS USA LLC** [US/US]; 100 Results Way, Marlborough, Massachusetts 01752 (US).

(72) Inventors: **KINI, Prasad**; EPIP 122 (Phase II), Whitefield Road, John F. Welch Technology Centre, Hoodi Village, Karnataka, Bengaluru 560 066 (IN). **RAO, Nagaraj**; EPIP 122 (Phase II), Whitefield Road, John F. Welch Technology Centre, Hoodi Village, Karnataka, Bengaluru 560 066 (IN). **MADHU, KJ**; EPIP 122 (Phase II), Whitefield Road, John F. Welch Technology Centre, Hoodi Village, Karnataka, Bengaluru 560 066 (IN). **MURUGESAN, Kandaku-**

mar; EPIP 122 (Phase II), Whitefield Road, John F. Welch Technology Centre, Hoodi Village, Karnataka, Bengaluru 560 066 (IN).

(74) Agent: **D'ANGELO, Michael** et al.; 100 Results Way, Marlborough, Massachusetts 01752 (US).

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(54) Title: SMALL-SCALE BIOREACTOR

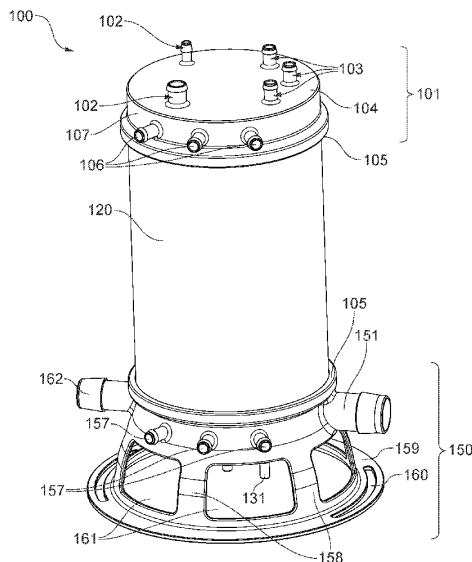


FIG. 1

(57) Abstract: A small-scale bioreactor including a cap, a sidewall, and a base, each of which can be generally manufactured as a unitary components. The bioreactor is sterilizable and configured to carry out a bio-process (e.g., cell culturing) for the production of a therapeutic, and configured to be disposed of after use. The base can further include integrally formed sparge lines and impeller shaft, thus creating an easily and customizable and manufacturable bioreactor.

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