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- (71) **Applicant:** SANOFI PASTEUR SA [FR/FR]; 2, avenue Pont Pasteur, F-69007 Lyon (FR).
- (72) **Inventors:** GEBHARD, Thomas; Deckemttstr. 9, 79400 Kandern (DE). KAISER, Roland; Hauptsse 24, 79588 Efringen-Kirchen (DE). PLITZKO, Matthias; René-Schickele Str. 8, 79395 Neuenburg (DE). STRUSCHKA, Manfred; Lettenstr. 52, 79424 Auggen (DE). LUY, Bernhard; Landsknechtstr. 13, 79102 Freiburg (DE).
- (74) **Agent:** BÖSL, Raphael; Isenbruck Bösl Hörschler LLP, Prinzregentenstrasse 68, 81675 München (DE).

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(54) **Title:** HEATING DEVICE FOR ROTARY DRUM FREEZE-DRYER

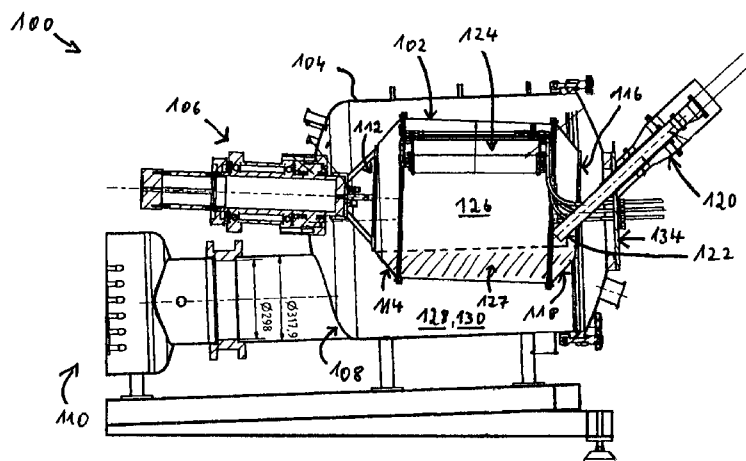


Fig. 1

(57) **Abstract:** A heating device (124) for heating particles to be freeze-dried in a rotary drum (102) of a freeze-dryer (100) is provided, the device comprising at least one radiation emitter (202) for applying radiation heat to the particles, and a tube-shaped separator (204) for separating the particles from the at least one emitter (202). The separator (202) being integrally closed at one end and separating an emitter volume (206) encompassing the at least one emitter (202) from a drum process volume (126) inside the drum (102), wherein the heating device (124) protrudes into the drum process volume (126) such that said integrally closed end of the separator (204) is arranged inside the drum (102) as a free end.