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(54) Title: INHALABLE EPINEPHRINE

(57) Abstract: The present invention is directed toward particles for delivery of epinephrine to the respiratory system and methods for treating a patient in need of epinephrine. The particles and respirable compositions comprising the particles of the present invention described herein comprise the bioactive agent epinephrine, or a salt thereof, as a therapeutic agent. The particles are preferably formed by spray drying. Preferably, the particles and the respirable compositions are substantially dry and are substantially free of propellants. In a preferred embodiment, the particles have aerodynamic characteristics that permit targeted delivery of epinephrine to the site(s) of action.



WO 2004/002551 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 424/45, 46, 43; 514/2, 54

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/45, 46, 43; 514/2, 54

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST, STN (BIOSIS, MEDLINE, CAPLUS), NPL (PDR, SCIRUS)**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,095,355 (ABRAMSON et al) 25 June 1963 (25.06.1963), entire document.	1-5, 12-21, 23, 35-38, 40-47, 49, 58, 104-106, 111-116, 123, 130-131, 133-135
Y	Drug information Handbook (Epi-pen(R) and primatene(R)), (1993) pages 323-325.	22, 24-31, 48, 50-57, 59-61, 63-79, 108-109, 117-122 and 136
Y, P	US 6,461,591 B1 (KELLER et al) 08 October 2002 (08.10.2002), entire document.	6-11, 34, 39, 62, 80-103, 107, 110, 124-129, 132, 137-139

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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