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(12) **United States Patent**
Calderari et al.

(10) **Patent No.:** **US 9,066,980 B2**
(45) **Date of Patent:** ***Jun. 30, 2015**

- (54) **LIQUID PHARMACEUTICAL FORMULATIONS OF PALONOSETRON**
- (71) Applicants: **Helsinn Healthcare SA**, Lugano (CH); **Roche Palo Alto LLC**, Palo Alto, CA (US); **Simone Macciocchi**, Melide (CH); **Giulio Macciocchi**, Breganzona (CH)
- (72) Inventors: **Giorgio Calderari**, Rancate (CH); **Daniele Bonadeo**, Casalzuigno (IT); **Roberta Cannella**, Varese (IT); **Alberto Macciocchi**, Melide (CH); **Andrew Miksztal**, Palo Alto, CA (US); **Thomas Malefyt**, Carmel Valley, CA (US); **Kathleen M Lee**, Palo Alto, CA (US)
- (73) Assignees: **Helsinn Healthcare SA**, Lugano/Pazzallo (CH); **Roche Palo Alto LLC**, Palo Alto, CA (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.
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A61K 47/12 (2006.01)
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A61K 9/00 (2006.01)
- (52) **U.S. Cl.**
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- (58) **Field of Classification Search**

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(74) *Attorney, Agent, or Firm* — Clark G. Sullivan; Troutman Sanders LLP

(57) **ABSTRACT**

The present invention relates to shelf-stable liquid formulations of palonosetron for reducing chemotherapy and radiotherapy induced emesis. The liquid formulations are particularly useful for oral administration.

Dr. Reddy's Laboratories, Ltd., et al.
v.



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A61K 9/0095 (2013.01)****(58) Field of Classification Search**USPC 514/296, 397
See application file for complete search history.**(56) References Cited**

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Primary Examiner — Shirley V Gembeh

(74) Attorney, Agent, or Firm — Clark G. Sullivan;
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lations of palonosetron for reducing chemotherapy and radio-
therapy induced emesis with palonosetron. The formulations
are particularly useful in the preparation of intravenous and
oral liquid medicaments.**16 Claims, No Drawings**

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