Publication
**EP 0591395 A4 19940831**

Application
**EP 92914351 A 19920625**

Priority
- US 9205377 W 19920625
- US 72172391 A 19910626
- US 75080191 A 19910827

Abstract (en)
[origin: WO9300075A1] Methods and compositions are disclosed utilizing the optically pure S(-) isomer of ondansetron. This compound is a potent drug for the treatment of nausea and vomiting associated with chemotherapy and radiation therapy, while avoiding the concomitant liability of adverse effects associated with the racemic mixture of ondansetron. The S(-) isomer of ondansetron is also useful for the treatment of behavioral disorders such as mood anxiety and schizophrenia, and such other conditions as may be related to S(-) ondansetron's activity as a competitive antagonist of serotonin receptor subtype 5-HT3 such as disorders of gastrointestinal motility, depression, migraine, and as an aid for alcohol withdrawal, nicotine withdrawal, and drug (benzodiazepine et al.) withdrawal, without the concomitant liability of adverse liability of adverse effects associated with the racemic mixture of ondansetron. Furthermore, the S(-) isomer of ondansetron is also useful for the treatment of cognitive disorders such as dementia or age-associated memory impairment, while avoiding the concomitant liability of adverse effects associated with the racemic mixture of ondansetron.

IPC 1-7
**A61K 9/48**

IPC 8 full level
**A61K 9/08** (2006.01); **A61K 9/20** (2006.01); **A61K 9/70** (2006.01); **A61K 31/415** (2006.01); **A61P 1/08** (2006.01); **C07D 403/06** (2006.01)

CPC (source: EP)
**A61K 31/415** (2013.01); **A61P 1/08** (2017.12)

Citation (search report)
- [DX] A.BUTLER ET AL.: "Pharmacological properties of GR38032F, a novel antagonist at 5-HT3 receptors", BR.J.PHARMACOL., vol. 94, 1988, pages 397 - 412
- [X] A.BUTLER ET AL.: "The pharmacological characterization of 5-HT3 receptors in three isolated preparations derived from guinea -pig tissues", BR.J.PHARMACOL., vol. 101, 1990, pages 591 - 598
- See references of WO 9300075A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DOCDB simple family (publication)
**WO 9300075 A1 19930107**; AU 2254692 A 19930125; CA 2112488 A1 19930107; EP 0591395 A1 19940413; EP 0591395 A4 19940831; JP H06509073 A 19941013

DOCDB simple family (application)
**US 9205377 W 19920625**; AU 2254692 A 19920625; CA 2112488 A 19920625; EP 92914351 A 19920625; JP 50166593 A 19920625