पेटेंट कार्यालय शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 51/2024 ISSUE NO. 51/2024

शुक्रवार FRIDAY दिनांकः 20/12/2024

DATE: 20/12/2024

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

(43) Publication Date: 20/12/2024

(19) INDIA

(51) International

(86) International

(87) International

Publication No

Filing Date

Application Number

Filing Date

Application Number

Filing Date

(62) Divisional to

(61) Patent of Addition to

Application No

classification

(22) Date of filing of Application:07/12/2024

(54) Title of the invention: DEVELOPMENT OF OPTIMIZED DRUG DELIVERY SYSTEM OF ANTIDEPRESSANT DRUG FLUOXENTINE HYDROCHLORIDE

:A61K0009200000, A61K0009000000.

A61P0025000000, A61P0025160000,

A61K0009060000

:NA

:NA

: NA

:NA

:NA

:NA

:NA

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(57) Abstract:

The present invention relates to a development of optimized drug delivery system of antidepressant drug fluoxentine hydrochloride. The formulation employs a facecentered central composite design (CCD) to optimize the concentrations of sodium starch glycolate as a super-disintegrant and camphor as a sublimating agent. The FDTs were produced using a direct compression method, resulting in tablets that exhibit rapid disintegration and dissolution. Optimized batches demonstrated a wetting time of approximately 18.08 seconds, a disintegration time of 19.84 seconds, and a drug release rate of 85.82% within five minutes. Stability studies conducted under accelerated conditions confirmed no significant changes in the optimized tablets over 30 days. This formulation offers enhanced patient compliance through rapid onset of action, low dosing, and ease of administration without the need for water

No. of Pages: 10 No. of Claims: 7