पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 13/2026	शुक्रवार	दिनांक: 27/03/2026
ISSUE NO. 13/2026	FRIDAY	DATE: 27/03/2026

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/02/2026
(21) Application No.202611015065 A
(43) Publication Date : 27/03/2026

(54) Title of the invention : NEUROPROTECTIVE EFFECTS OF PHENOLIC COMPOUND AGAINST CHEMICAL-INDUCED DEMENTIA IN RAT

(51) International classification	:A61P 25/28, A61K 31/352, A61K 31/05, A61K 31/12, C07D 311/30	(71)**Name of Applicant :** **1)Dr. Shahbaz Khan** Address of Applicant :Associate Professor, Pharmacy Academy, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh - 244102, India. Uttar Pradesh India **2)Dr. Suruchi Singh** **3)Mrs. Goldi Singh** **4)Dr. Mohammad Mateen Zehgeer** **5)Shama Parveen** **6)Rizwan Ahamad**
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Dr. Shahbaz Khan**
(33) Name of priority country	:NA	**2)Dr. Suruchi Singh**
(86) International Application No Filing Date	: :01/01/1900	**3)Mrs. Goldi Singh** **4)Dr. Mohammad Mateen Zehgeer**
(87) International Publication No	: NA	**5)Shama Parveen**
(61) Patent of Addition to Application Number Filing Date	:NA :NA	**6)Rizwan Ahamad**
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The present invention relates to pharmaceutical compositions comprising phenolic compounds for preventing and treating chemical-induced dementia in experimental animal models. The invention specifically addresses neuroprotective effects of naturally occurring or synthetically derived phenolic compounds including resveratrol, curcumin, quercetin, and related compounds against neurotoxic agents inducing dementia-like pathology. The phenolic compounds demonstrate potent antioxidant, anti-inflammatory, and anti-apoptotic properties, significantly improving cognitive performance in behavioral tests, reducing oxidative stress markers, enhancing endogenous antioxidant enzyme activities, inhibiting acetylcholinesterase activity, suppressing neuroinflammation, preventing neuronal apoptosis, and preserving neuronal integrity in hippocampal and cortical brain regions. The invention provides comprehensive evidence supporting therapeutic potential of phenolic compounds for neurodegenerative disorders through modulation of multiple pathological pathways including oxidative stress, neuroinflammation, cholinergic dysfunction, and apoptotic cell death. The pharmaceutical compositions find application in preventing and treating various forms of dementia and related cognitive disorders.

No. of Pages : 18 No. of Claims : 10