

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201611018772 A

(19) INDIA

(22) Date of filing of Application :31/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : TOPICAL ANALGESIC COMPOSITION

(51) International classification	:A61K 31/00	(71)Name of Applicant : 1)CHITKARA UNIVERSITY
(31) Priority Document No	:NA	Address of Applicant :Chandigarh-Patiala National
(32) Priority Date	:NA	Highway(NH-64) Tehsil Rajpura, Distt. Patiala Punjab,India.
(33) Name of priority country	:NA	Punjab India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. SINGH THAKUR GURJEET
(87) International Publication No	: NA	2)DR. REHNI ASHISH KUMAR
(61) Patent of Addition to Application Number	:NA	3)DHIMAN SONIA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a novel dosage form for use as a topical/cutaneous analgesic wherein the same consists of the drug midazolam along with suitable excipients for formulating as cream, ointment, lotion or dermal spray. Known therapeutic use of Midazolam is as an anti-anxiety drug (oral) and as an anesthetic (injectable) but not as an analgesic. The inventors evaluated existing compounds for therapeutic potential as a topical analgesic free from side-effects. Surprisingly, Midazolam not only emerged as a good candidate with strong analgesic effect when used topically but was also free from any undesirable side-effects. It has very low Primary Irritation Index (PII <2) i.e. it is non-irritating. Further, it did not exert any significant change in the locomotor activity. Effective dosage in test subjects (rats) was found to be 30 mM for topical application and the equivalent dose in humans being was about 1.5 grams per kg body weight.

No. of Pages : 17 No. of Claims : 2