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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : PREPARATION OF TRANSDERMAL PATCH OF A NEWLY SYNTHESIZED METHYL-COUMARIN DERIVATIVE AS ANTIDIABETIC AGENT

<p>(51) International classification :A61K 097000, A61K 450600, A61P 031000, C12Q 016809, G06T 090000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sushama Rawat Address of Applicant :Assistant Professor, Jaipur National University, Jaipur, Rajasthan, 302017 ----- 2)Deepak Shrivastava 3)Dr. Shyamalendu Tripathy 4)Kirti Negi 5)Mandeep Yadav 6)Sharib Jamal 7)Dr. Rajeev Ranjan 8)Pardeshi Sagrika Maheshsing 9)Dr. Simanchal Panda 10)Dr. Sarita Garg 11)Umesh Ramesh Nitone 12)Ashish Bhongale Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sushama Rawat Address of Applicant :Assistant Professor, Jaipur National University, Jaipur, Rajasthan, 302017 ----- 2)Deepak Shrivastava Address of Applicant :Assistant Professor, NMT Gujarati college of pharmacy Indore, PU4, Scheme No 54, Vijay Nagar, Indore, Madhya Pradesh, Pin Code: 452010 ----- 3)Dr. Shyamalendu Tripathy Address of Applicant :Assistant Professor, School of Pharmaceutical sciences, Siksha O Anusandhan University (deemed to be), Bhubaneswar, Odisha, Pin Code:751030 ----- 4)Kirti Negi Address of Applicant :Assistant Professor, Sanskriti University, India, Mathura,Uttar Pradesh, Pin Code: 281401 ----- 5)Mandeep Yadav Address of Applicant :Lecturer, SGT College Of Pharmacy, SGT University, Chandu Bhudhera, Gurugram, Haryana, Pin Code: 122505 ----- 6)Sharib Jamal Address of Applicant :Associate Professor, Mesco Institute of Pharmacy, Dhanoura Road Amroha, Uttar Pradesh, Pin Code: 244421 ----- 7)Dr. Rajeev Ranjan Address of Applicant :Assistant Professor, Dr. Shyama Prasad Mukherjee University, Morhabadi, Ranchi, Jharkhand, Pin Code: 834008 ----- 8)Pardeshi Sagrika Maheshsing Address of Applicant :Lecturer, YSPM's Yashoda Technical Campus, Satara, Maharashtra, Pin Code: 415002 ----- 9)Dr. Simanchal Panda Address of Applicant :Professor, Jaipur National University, aipur Agra Bypass, Near New RTO Office, Jagatpura, Jaipur, Rajasthan, Pin Code: 302017. ----- 10)Dr. Sarita Garg Address of Applicant :Associate Professor, Vaish Institute of Pharmaceutical Education And Research, Rohtak, Haryana, Pin Code: 124001 ----- 11)Umesh Ramesh Nitone Address of Applicant :Research Scientist, Govt.V.I.S.H Amravati, Maharashtra, Pin Code: 444602 ----- 12)Ashish Bhongale Address of Applicant :Lecturer, YSPM,YTC, Faculty of Pharmacy, Satara, Maharashtra, Pin Code: 415011 -----</p>
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(57) Abstract :

The present invention relates to a synthesis. Particularly, the present invention relates to a synthesis of methylcoumarin derivative, comprising formula (V)2-[(4-methyl-2-oxo-2H-chromen-7-yl)oxy]-N-(phenylcarbamoyl)acetamide. This synthesized compound was characterized using different analytical techniques. The synthesized formula V was fabricated as Transdermal Patchesutilising an aluminium foil backing and the solvent casting process. The synthesized methylcoumarin derivative havetested for anti diabetic activity using male albino rats weighing about 200 g which were fasted for 18 hours before the experiment and found that the synthesized compound has excellent anti-diabetic activity.

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