

पेटेंट कार्यालय  
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पेटेंट कार्यालय का एक प्रकाशन  
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(54) Title of the invention : DEVELOPMENT OF HERBAL FORMULATION OF ACHYRANTHES ASPERA FOR WOUND HEALING AND TREATMENT OF INFLAMMATION

<p>(51) International classification :A61K0036210000, A61K0031405000, A61K0036870000, A61K0031345000, A61P0029000000</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 :</p> <p><b>1)Mr. Shivam</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102. Moradabad -----</p> <p><b>2)Dr. Phool Chandra</b> <b>3)Dr. Sushil Kumar</b> <b>4)Mr. Amit Kumar</b> <b>5)Mr. Raj Kumar Singh Bharti</b> <b>6)Mr. Vineet Kumar</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)Mr. Shivam</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102. Moradabad -----</p> <p><b>2)Dr. Phool Chandra</b> Address of Applicant :Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102. Moradabad -----</p> <p><b>3)Dr. Sushil Kumar</b> Address of Applicant :Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102. Moradabad -----</p> <p><b>4)Mr. Amit Kumar</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102. Moradabad -----</p> <p><b>5)Mr. Raj Kumar Singh Bharti</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102. Moradabad -----</p> <p><b>6)Mr. Vineet Kumar</b> Address of Applicant :Assistant Professor, Shri Ji Institute of Pharmaceutical Education and Research, Bilari, Moradabad, Uttar Pradesh, Pin Code: 244411 Bilari -----</p>
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## (57) Abstract :

The present invention relates to the preparation of methanol leaf extract of Achyranthes aspera and to evaluate its in-vivo wound healing and anti-inflammatory activities. The 80% methanol leaf extract of A. aspera was fractionated with chloroform, n-butanol and water. Wound healing and anti-inflammatory activities were evaluated using excision and incision wound models, rat paw edema and cotton pellet-induced granuloma models, respectively. For wound healing activity, fractions were evaluated at 5 and 10% ointments. The positive control groups were treated with nitrofurazone 0.2% ointment. Simple ointment treated for excision wound model and untreated for incision wound model rats were assigned as negative controls. For anti-inflammatory activity, fractions were evaluated at 100, 200 and 400mg/kg. Positive control groups were treated with indomethacin 10mg/kg for both rat paw edema and cotton pellet-induced granuloma models. The 10% w/w chloroform fraction ointment revealed high percentage of wound contraction and reduced period of epithelialization.

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