

(54) Title of the invention : FORMULATION AND EVALUATION OF MUCOADHESIVE ORAL THIN FILM OF TERMINALIA ARJUNA BARK LIQUID EXTRACT

(51) International classification :A61K0036185000, A61K0009000000, A61K0009700000, A61P0035000000, A61K0047360000

(86) International Application No :PCT//

Filing Date :01/01/1900

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

**1)Dr. Ramanathan Rajagopalan**  
Address of Applicant :Associate Professor Department of Pharmaceutics Periyar College of Pharmaceutical Sciences Periyar Centenary Educational Complex Sathanur Main Road Tiruchirappalli, Pincode - 620 021 Tamil Nadu, India. -----

**2)Prof. Dr. Rajagopalan Senthamarai**  
Address of Applicant :Principal Department of Pharmacognosy Periyar College of Pharmaceutical Sciences Periyar Centenary Educational Complex Sathanur Main Road Tiruchirappalli, Pincode - 620 021, Tamil Nadu, India. -----

**3)Prof. Dr. Abdulrahim Mohamed Ismail**  
Address of Applicant :Distinguished Professor Department of Pharmacy Practice Periyar College of Pharmaceutical Sciences Periyar Centenary Educational Complex Sathanur Main Road Tiruchirappalli Pin Code - 620 021 Tamil Nadu, India. -----

**4)Prof. Dr. Krishnamoorthy Govindan**  
Address of Applicant :Professor & HOD Vice Principal Department of Pharmaceutical Chemistry Periyar College of Pharmaceutical Sciences Periyar Centenary Educational Complex Sathanur Main Road Tiruchirappalli, Pincode - 620 021 Tamil Nadu, India. -----

**5)Mr. Selvaraj Manivasan**  
Address of Applicant :B. Pharm Student Periyar College of Pharmaceutical Sciences, Periyar Centenary Educational Complex, Sathanur Main Road, Tiruchirappalli, Pincode-620 021, Tamil Nadu, India. -----

**6)Ms. Venkatesan Manjula**  
Address of Applicant :B. Pharm Student Periyar College of Pharmaceutical Sciences, Periyar Centenary Educational Complex, Sathanur Main Road, Tiruchirappalli, Pincode-620 021, Tamil Nadu, India. -----

**7)Mr. Syed Ibrahim Mohamed Abudhakar**  
Address of Applicant :B. Pharm Student Periyar College of Pharmaceutical Sciences, Periyar Centenary Educational Complex, Sathanur Main Road, Tiruchirappalli, Pincode-620 021, Tamil Nadu, India. -----

**8)Mr. Mohamed Gani Batcha Mohamed Imran**  
Address of Applicant :B. Pharm Student Periyar College of Pharmaceutical Sciences, Periyar Centenary Educational Complex, Sathanur Main Road, Tiruchirappalli, Pincode - 620 021, Tamil Nadu, India. -----

**9)Dr. Farhad Mehta**  
Address of Applicant :Assistant Professor School of Pharmaceutical Sciences University Teaching Department Rajiv Gandhi Proudyogiki Vishwavidyalaya Airport Road, Gandhi Nagar, Bhopal, Pin Code - 462 033, Madhya Pradesh, India. -----

**10)Mrs. Chandrabose Uthra**  
Address of Applicant :PhD Research Scholar Department of Microbiology Bharathidasan University Tiruchirappalli, Pin Code - 620 024, Tamil Nadu, India. -----

**11)Dr. Arvind Kumar Jain**  
Address of Applicant :Professor NRI Institute of Research & Technology-Pharmacy Bhopal, Pin code- 462 022, Madhya Pradesh, India. -----

(57) Abstract :

FORMULATION AND EVALUATION OF MUCOADHESIVE ORAL THIN FILM OF TERMINALIA ARJUNA BARK LIQUID EXTRACT A method for the development of terminalia arjuna is used in various indigenous system of medicine such as ayurveda, siddha, and unani. The traditional medical forms provide drug delivery with peaks often above the required dose and face problems such as first-pass metabolism, stability, and low therapeutic efficacy. To enhance oral delivery and to allow for fast release, the use of Terminalia arjuna bark liquid extract oral thin film was explored. The method includes developing novel oral thin film formulation of Terminalia arjuna bark liquid extract for oral delivery. The burst release of Terminalia arjuna bark liquid extract and HPMC E5 (5cps) may be beneficial by producing high drug concentrations within a short period of time, that leads to fast onset of pharmacological effects. FIG. 1

No. of Pages : 21 No. of Claims : 1