

PATENT NO. 376462
NOVEL FUSED HETEROCYCLES COMPOUNDS AND METHOD OF SYNTHESIS
THEREOF

APPLICATION NO. 201611014161

APPLICANT
Central University of Punjab

ABSTRACT

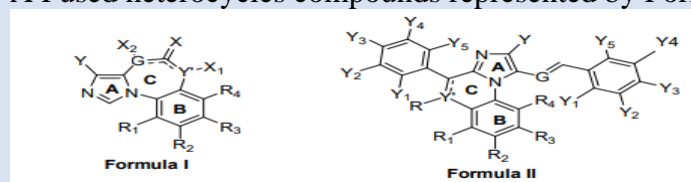
Fused heterocycles compounds represented by Formula (I) and Formula (II) wherein each of R₁, R₂, R₃, and R₄ independently represents hydrogen, alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl; Y represents no atom; O or S or -NR (wherein R represents alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl); wherein each of Y₁, Y₂, Y₃, Y₄ and Y₅ independently represents hydrogen; alkyl; -OR; -SR; or -NHR (wherein R represents alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl); wherein G represents CH N, S or O; in the generic structure formula I and II, A, B and C represents the rings; wherein each of X₁ and X₂ independently represents hydrogen, alkyl, cycloalkyl, heterocycl, heteroaryl, aralkyl heterocyclalkyl or heteroarylalkyl; wherein Y represents cyano or alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl, or a pharmaceutically acceptable salts thereof.

INVENTOR

Raj Kumar
Sandeep Singh
Monika Chauhan
Centre for Pharmaceutical Sciences
and Natural Products, Central
University of Punjab, Bathinda,
Punjab

CLAIM 1

A Fused heterocycles compounds represented by Formula (I) and Formula (II)



wherein each of R₁, R₂, R₃, and R₄ independently represents hydrogen, alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl; Y represents no atom; O or S or -NR (wherein R represents alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl); wherein each of Y₁, Y₂, Y₃, Y₄ and Y₅ independently represents hydrogen; alkyl; -OR; -SR; or -NHR (wherein R represents alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl); wherein G represents CH N, S or O; in the generic structure formula I and II, A, B and C represents the rings; wherein each of X₁ and X₂ independently represents hydrogen, alkyl, cycloalkyl, heterocycl, heteroaryl, aralkyl heterocyclalkyl or heteroarylalkyl; wherein Y represents cyano or alkyl, alkenyl, alkynyl, aralkyl, heteroarylalkyl, heterocyclalkyl, aryl, cycloalkyl, heteroaryl or heterocycl, or a pharmaceutically acceptable salts thereof, wherein any of X and X₂ or X₁ together optionally form a cyclic ring fused with the ring B, wherein X₁ and X₂ together optionally form a cyclic ring fused with the ring B.