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(54) Title: PIPERAZINYL AND PIPERIDINYL UREAS AS MODULATORS OF FATTY ACID AMIDE HYDROLASE

(57) Abstract: Compounds of formula (I) : wherein, Z is -N-or>CH; R¹ is -H or -C₁₋₄alkyl; Ar¹ is 2-thiazolyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-pyrimidinyl, 4-primidinyl, 5-pyrimidinyl, or phenyl, each unsubstituted or substituted at a carbon ring member with one or two R^a moieties; Where each R^a moiety is independently selected from the group consisting of -C₁₋₄alkyl, -C₂₋₄alkenyl, -OH, -OC₁₋₄alkyl, halo, -CF₃, -OCF₃, -SCF₃, -SH, -S(O)₀₋₂C₁₋₄alkyl, -OSO₂C₁₋₄alkyl, -CO₂C₁₋₄alkyl, -CO₂H, -COC₁₋₄alkyl, -N(R^b)₂R^c, -SO₂NR^bR^c, -NR^bSO₂R^c, -C(=O)NR^bR^c, -NO₂, and -CN, wherein R^b and R^c are each independently -H or -C₁₋₄alkyl; and Ar² is defined in the claims are useful as FAAH inhibitors. Such compounds may be used in pharmaceutical compositions and methods for the treatment of disease states, disorders, and conditions mediated by fatty acid amide hydrolase (FAAH) activity. Thus, the compounds may be administered to treat, e.g., anxiety, pain, inflammation, sleep disorders, eating disorders, or movement disorders (such as multiple sclerosis).

WO 2006/074025 A1