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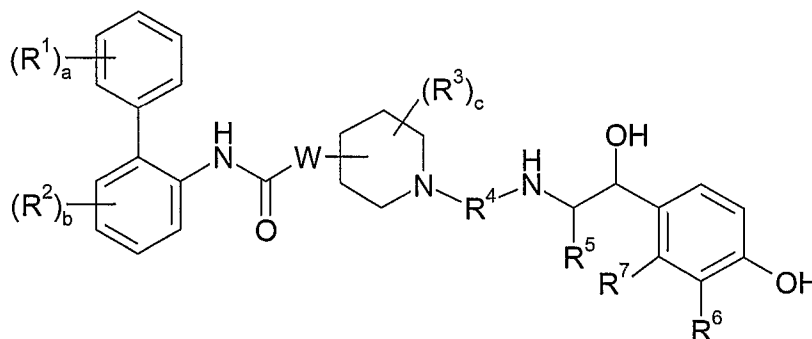
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(I)

(57) Abstract: This invention provides biphenyl derivatives of formula I: wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , W, a, b and c are as defined in the specification, or a pharmaceutically acceptable salt or solvate or stereoisomer thereof. The biphenyl derivatives of this invention possess both β_2 adrenergic receptor agonist and muscarinic receptor antagonist activity and therefore, such biphenyl derivatives are useful for treating pulmonary disorders, such as chronic obstructive pulmonary disease and asthma.