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(56) Documents Cited by ISA:  
**WO 2005/013994 A** **WO 2003/087094 A**  
**WO 2003/000241 A** **WO 2002/053564 A**  
**WO 2002/038154 A** **WO 2001/004118 A**  
**US 20040167167 A1**

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(54) Abstract Title: **Combinations comprising antimuscarinic agents and beta-adrenergic agonists**

(57) A combination which comprises (a) a  $\beta$ 2 agonist and (b) an antagonist of M3 muscarinic receptors which is 3(R)-(2-hydroxy-2,2-dithien-2-ylacetoxy)-1-(3-phenoxypropyl)-1-azoniabicyclo[2.2.2]octane, in the form of a salt having an anion X, which is a pharmaceutically acceptable anion of a mono or polyvalent acid.

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