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(71) Applicant (*for all designated States except US*): **GLAXO GROUP LIMITED** [GB/GB]; Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GRIBBLE, Andrew, Derrick** [GB/GB]; GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW (GB). **FORBES, Ian, Thomson** [GB/GB]; GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW (GB). **LIGHTFOOT, Andrew** [GB/GB]; GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW (GB). **PAYNE, Andrew, H** [GB/GB]; GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW (GB). **WALKER, Graham** [GB/GB]; GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW (GB). **GARZYA, Vincenzo** [IT/GB]; GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW (GB).

(74) Agent: **MCKINNELL, Denise**; GlaxoSmithKline, CN925.1, 980 Great West road, Brentford, Middlesex TW8 9GS (GB).

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(54) Title: AROMATIC SULFONES AND THEIR MEDICAL USE

(57) Abstract: The invention provides compounds of formula (I): wherein A and B represent the groups -(CH2)m- and -(CH2)n- respectively;R1 represents hydrogen or C1-6alkyl;R2 represents hydrogen, halogen, hydroxy, cyano, nitro, hydroxyC1-6alkyl, trifluoromethyl, trifluoromethoxy, C1-6alkyl, C1-6alkoxy, C1-6fluoroalkoxy, -(CH2)pC3-6cycloalkyl, -(CH2)pOC3-6cycloalkyl, -COC1-6alkyl, -SO2C1-6alkyl, -SOC1-6alkyl, -S-C1-6alkyl, -CO2C1-6alkyl, -CO2NR5R6, -SO2NR5R6, -(CH2)pNR5R6, -(CH2)pNR5COR6, optionally substituted aryl ring, optionally substituted heteroaryl ring or optionally substituted heterocyclyl ring;R3 represents optionally substituted aryl ring or optionally substituted heteroaryl ring;R4 represents hydrogen, hydroxy, C1-6alkyl, C1-6alkoxy, trifluoromethyl, trifluoromethoxy, halogen, -OSO2CF3, -(CH2)pC3-6cycloalkyl, -(CH2)qOC1-6alkyl or -(CH2)pOC3-6cycloalkyl;R5 and R6 each independently represent hydrogen, C1-6alkyl or, together with the nitrogen or other atoms to which they are attached, form an azacycloalkyl ring or an oxo-substituted azacycloalkyl ring;Z represents -(CH2)rX- wherein the -(CH2)r- group is attached to R3, or -X(CH2)r- wherein X is attached to R3, and wherein any of the -CH2- groups may be optionally substituted by one or more C1-6alkyl groups;X represents oxygen, -NR7 or -CH2- wherein the -CH2- group may be optionally substituted by one or more C1-6alkyl groups;R7 represents hydrogen or C1-6alkyl;m and n independently represent an integer selected from 1 and 2;p independently represents an integer selected from 0, 1, 2 and 3; q independently represents an integer selected from 1, 2 and 3; r independently represents an integer selected from 0, 1, and 2; or a pharmaceutically acceptable salt or solvate thereof.The compounds are useful in therapy, in particular as antipsychotic agents.

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