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(74) Agents: STUMM, K. et al.; P.O. Box 31, NL-5830 AA
Boxmeer (NL).

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(71) Applicant (*for all designated States except US*): INTER-
VET INTERNATIONAL B.V. [NL/NL]; P.O. Box 31,
Wim de Körverstraat 35, NL-5831 AN Boxmeer (NL).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): ALMENA-PEREA,
Juan Jose [ES/DE]; Rodenbacher Chaussee 4, 63454
Hanau (DE). BRINK, Monica [DE/DE]; Zur Propstei 1,
5520 Schwabenheim (DE). GEISS, Gerhard [DE/DE];
Rodenbacher Chaussee 4, 63457 Hanau (DE). KADY-
ROV, Renat [DE/DE]; Rodenbacher Chaussee, 63457
Hanau (DE). MEYER, Thorsten [DE/DE]; Zur Propstei
1, 55270 Schwabenheim (DE).

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(54) Title: ENANTIOSELECTIVE SYNTHESIS OF 6-AMINO-7-HYDROXY-4, 5, 6, 7-TETRAHYDRO-IMIDAZO [4, 5, 1-JK] [1] -BENZAZEPIN-2 [1H] -ONE AND ZILPATEROL

(57) Abstract: This invention relates to a process for the hydrogenation of a ketooxime to selectively form an aminoalcohol stereoisomer, and, in particular, to a process for the hydrogenation of 4,5-dihydro-imidazo[4,5,1-jk][1]benzazepin-2,6,7[1H]-trione-6-oxime or a salt thereof to selectively form a stereoisomer of 6-amino-7-hydroxy-4, 5, 6, 7-tetrahydro-imidazo[4,5,1-jk][1]-benzazepin-2[1H]-one or a salt thereof. This invention also relates to the use of the 6-amino-7-hydroxy-4, 5, 6, 7-tetrahydro-imidazo[4,5,1-jk][1]-benzazepin- 2[1H]-one hydrogenation product or a salt thereof to selectively make a stereoisomer of zilpaterol or a salt thereof, as well as the use of such a zilpaterol stereoisomer or salt in methods of treatment and medicaments for animals.

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