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(71) Applicant *(for all designated States except US)*: **CADILA HEALTHCARE LIMITED** [IN/IN]; Zydus Tower, Satellite Cross Roads, Ahmedabad - 380 015, Gujarat (IN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PANDEY, Bipin** [IN/IN]; CADILA HEALTHCARE LIMITED, Zydus Tower, Satellite Cross Roads, Ahmedabad - 380 015, Gujarat (IN). **DAVE, Mayank Ghanshyambhai** [IN/IN]; CADILA HEALTHCARE LIMITED, Zydus Tower, Satellite Cross Roads, Ahmedabad - 380 015, Gujarat (IN). **KOTHARI, Himanshu M.** [IN/IN]; CADILA HEALTHCARE LIMITED, Zydus Tower, Satellite Cross Roads, Ahmedabad - 380 015, Gujarat (IN). **SHUKLA, Bhavin Shriprasad** [IN/IN]; CADILA HEALTHCARE LIMITED, Zydus Tower, Satellite Cross Roads, Ahmedabad - 380 015, Gujarat (IN).

(74) Agents: **SUBRAMANIAM, Hariharan** et al.; Subramaniam, Nataraj & Associates, E-556, Greater Kailash-II, New Delhi - 110 048 (IN).

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(54) **Title**: NOVEL SALTS OF DPP-IV INHIBITOR

(57) **Abstract**: The present invention discloses new salts of (2R)-4-oxo-4-[3-(trifluoromethyl)- 5,6-dihydro[1,2,4]-triazolo[4,3-a]pyrazin-7(8H)-yl]- 1 -(2,4,5-trifluorophenyl)butan-2- amine i.e. gentisate, adipate and trifluoro acetic acid salts. The invention also describes the new. crystalline and amorphous forms of (2R)-4-oxo-4-[3-(trifluoromethyl)-5,6- dihydro[1,2,4]-triazolo[4,3-a]pyrazin-7(8H)-yl]- 1 -(2,4,5-triflLiorophenyl)butan-2-amine gentisate. The present invention also discloses novel crystalline salt form of (2R)-4-oxo-4-[3- (trifliioromethyl)-5,6-dihydiO[1,2,4]-triazolo[4,3-a]pyrazin-7(8H)-yl]- 1 -(2,4,5- trifluorophenyl)butan-2-amine hydrochloride and novel crystalline and amorphous salt forms of besylate and process for their preparation and isolation.

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