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(71) Applicant (for all designated States except US): **IN-STRACTION GMBH** [DE/DE]; Janderstr. 3, 68199 Mannheim (DE).

(72) Inventors; and

(71) Applicants (for US only): **ARENDT, Markus** [DE/DE]; Gerhart-Hauptmann-Str. 4, 68766 Hockenheim (DE). **DE-GEL, Björn** [DE/DE]; Lönssstr. 3, 67454 Haßloch (DE). **SCHWARZ, Thomas** [DE/DE]; Metzholtz 23, 42799 Leichlingen (DE). **STUMM, Gerhard** [DE/DE]; Pahlblöckenstieg 15, 22143 Hamburg (DE). **WELTER, Martin** [DE/DE]; Sitzbuchweg 91, 69118 Heidelberg (DE).

(74) Agent: **STOLMÁR SCHEELE & PARTNER**; Blumenstr. 17, 80331 München (DE).

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(54) Title: SORBENT COMPRISING CROSSLINKED POLYVINYLAMINE ON ITS SURFACE FOR THE PURIFICATION OF ORGANIC MOLECULES

(57) Abstract: In a first embodiment the present invention relates to a sorbent comprising a porous inorganic solid support material having on its surface a film of a crosslinked polyvinylamine comprising derivatized amine groups and amine groups binding to the surface of the support material via electron donor/acceptor interactions. In a second embodiment the present invention relates to a sorbent comprising a solid support material, the surface of which comprises a residue of a general formula (I), wherein the residue is attached via a covalent single bond to a functional group on the surface of either the bulk solid support material itself or of a polymer film on the surface of the solid support material. Furthermore, the present invention relates to the use of the sorbents according to the invention for the purification of organic molecules, in particular pharmaceutically active compounds, preferably in chromatographic applications.

