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(71) Applicant: AVENTIS PHARMA DEUTSCHLAND GMBH [DE/DE]; Brüningstrasse 50, D-65929 Frankfurt am Main (DE).

(72) Inventors: GERLACH, Uwe; Im Heideck 30, D-65795 Hattersheim (DE). HOFMANN, Joachim; Kleiststrasse 2, D-65520 Bad Camberg (DE). LANG, Hans, Jochen; Rüdesheimer Strasse 7, D-65719 Hofheim (DE). WEI, Aguan; Washington University School of Medicine, Department of Anatomy and Neurobiology, 660 South Euclid Avenue, Saint Louis, MO 63110 (US).

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(54) Title: UTILIZATION OF INHIBITORS OF THE KQT1 CHANNEL IN ORDER TO PRODUCE A MEDICAMENT FOR TREATING DISEASES WHICH ARE CAUSED BY PARASITIC HELMINTHS AND ECTOPARASITES

(54) Bezeichnung: VERWENDUNG VON INHIBITOREN DES KQT1–KANALS ZUR HERSTELLUNG EINES MEDIKAMENTS ZUR BEHANDLUNG VON KRANKHEITEN, DIE DURCH HELMINTHEN UND EKTOPARASITEN HERVORGERUFEN WERDEN

(57) Abstract

The invention relates to the utilization of inhibitors of the KQT1 channel in order produce a medicament for treating diseases which are caused by parasitic helminths and ectoparasites. According to the invention, inhibitors of the KQT1 channel depict a novel lethal ındamental constituent for parasitic helminths and ectoparasites. Blockers of the cellular KQT1 channel, said channel occurring in the parasitic helminths and ectoparasites, are therefore used to produce a medicament for treating vertebrates and humans which are afflicted with the parasitic helminths or ectoparasites. These KQT1 blockers are used alone as medicaments or in combination with other medicaments and therapeutic measures. Inhibitors of the KQT1 channel also depict a novel working mechanism for plant pests such as insects, spiders, mollusks and nematoda, and are consequently used in order to produce a plant protective agent.

(57) Zusammenfassung

Inhibitoren des KQT1–Kanals stellen ein neues letales Prinzip für Helminthen und Ektoparasiten dar. Deshalb werden Blocker des zellulären KQT1–Kanals, der in Helminthen und Ektoparasiten vorkommt, zum Herstellen eines Arzneimittels für die Behandlung von Wirbeltieren und Menschen verwendet, die von Helminthen oder Ektoparasiten befallen sind. Diese KQT1–Blocker werden als Arzneimittel allein oder in Kombination mit anderen Arzneimitteln und therapeutischen Maßnahmen angewendet. Inhibitoren des KQT1–Kanals stellen ebenfalls einen neuen Wirkmechanismus für Planzenschädlinge wie Insekten, Spinnentiere, Mollusken und Nematoden dar und werden folglich zur Herstellung eines Pflanzenschutzmittels verwendet.