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Martin**

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(54) **PRACTICAL SEROLOGICAL ASSAY FOR THE CLINICAL DIAGNOSIS OF LEISHMANIASIS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 345 days.

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(58) **Field of Classification Search** 435/253.6, 435/255.21, 258.3, 384, 388, 390, 391, 392, 435/404, 407

See application file for complete search history.

(56) **References Cited**

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(57) **ABSTRACT**

Methods for the diagnosis of visceral, cutaneous and canine leishmaniasis in a subject suspected of being infected with the parasitic protozoa *Leishmania* is disclosed. Disclosed are antibody-capture enzyme-linked immunosorbent assays (ELISAs) for the detection of antibodies to *Leishmania* parasite soluble antigens and antigen-capture ELISAs for the detection of *Leishmania* parasite soluble antigens in host samples. Also disclosed are immunodiagnostic kits for the detection of *Leishmania* parasite circulating antigens or IgM and IgG antibodies in a sample from subject having visceral, cutaneous or canine leishmaniasis. In these methods and kits, detection may be done photometrically or visually. The methods and kits also allow the visualization of *Leishmania* amastigotes or promastigotes in a sample.

6 Claims, 9 Drawing Sheets

Specific Ab Levels (IgG) in Visceral Leishmaniasis Patients

