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Rosenstein

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[54] **IMMUNO-AGGLUTINATION PARTICLE SUSPENSIONS**

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[58] **Field of Search** 436/501, 528, 531–534, 436/823, 548; 435/181

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[57] **ABSTRACT**

A suspension of diagnostic particles comprising antibody molecules attached to a carboxylate derivatized polymer core is provided for agglutination tests. The antibody is linked to the core through an avidin-biotin bridge. Avidin is joined by an amide bond to carboxyl groups on the core, and biotin is linked by an amide bond to amino groups on the antibody molecule. The core-bound antibody is exposed to a mixture of free biotin and biotinylated antibody to attach a controlled amount of antibody that is consistent with suspension stability prior to its use in a test and rapid cross-linking of suspended particles in the presence of antigen.

28 Claims, No Drawings