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(71) **Applicant** *(for all designated States except US)*: **BOEHRINGER INGELHEIM INTERNATIONAL GMBH** [DE/DE]; Binger Strasse 173, 55216 Ingelheim Am Rhein (DE).

(72) **Inventors; and**

(75) **Inventors/Applicants** *(for US only)*: **KONOPITZKY, Renate** [AT/AT]; BOEHRINGER INGELHEIM GMBH, Corporate Patents, Binger Strasse 173, 55216 Ingelheim Am Rhein (DE). **BORGES, Eric** [DE/AT]; BOEHRINGER INGELHEIM GMBH, Corporate Patents, Binger Strasse 173, 55216 Ingelheim Am Rhein (DE). **ADAM, Paul** [GB/AT]; BOEHRINGER INGELHEIM GMBH, Corporate Patents, Binger Strasse 173, 55216 Ingelheim Am Rhein (DE). **HEIDER, Karl-Heinz** [DE/AT]; BOEHRINGER INGELHEIM GMBH, Corporate Patents, Binger Strasse 173, 55216 Ingelheim Am Rhein (DE).

(74) **Agents**: **HAMMANN, Heinz** et al.; c/o BOEHRINGER INGELHEIM GMBH, Corporate Patents, Binger Strasse 173, 55216 Ingelheim Am Rhein (DE).

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(54) **Title**: CD33 BINDING AGENTS

(57) **Abstract**: The present invention relates to immunotherapies that are based on myeloid cell depletion. In particular, the present invention relates to CD33 binding agents for use in such therapies, e.g. in the treatment of myeloid cell malignancies and myelodysplastic syndrome (MDS).