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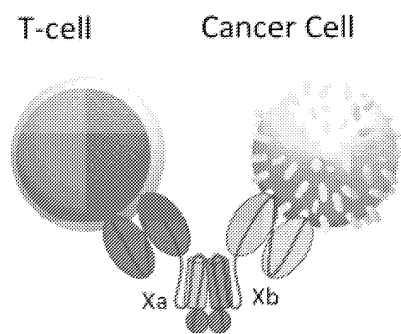
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(54) Title: POLYFUNCTIONAL ORTHOGONAL PROTEIN CHIMERAS

Figure 9A



Bispecific

(57) Abstract: Disclosed herein are engineered heterodimer or heterotrimer proteins which use a non-naturally occurring polypeptide domain comprising 1-5 alpha helices connected by amino acid linkers and an IgG2 hinge domain either alone or in conjunction with an IgG2 Fc domain. The heterodimer and heterotrimer proteins can further comprise an antigen-binding fragment that binds a lineage-specific cell-surface antigen, a polypeptide that binds to a molecule expressed on an immune cell (e.g., natural killer cell) and/or a polypeptide that binds to a molecule expressed on another type of immune cell (e.g., T cells). Also disclosed herein are nucleic acids encoding the proteins, vectors comprising the nucleic acids, compositions, and methods of treatment.

[Continued on next page]

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