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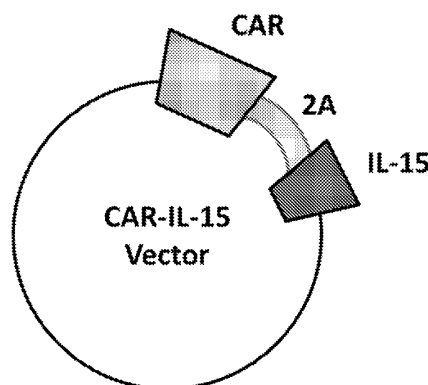
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(54) Title: CAR-EXPRESSING IMMUNE CELLS THAT SPECIFICALLY TARGET MESOTHELIN AND USES THEREOF

FIG. 1A



(57) Abstract: Disclosed herein are engineered immune cells that specifically recognizes mesothelin and expresses IL-15 and optionally CCL19. Also disclosed herein are isolated nucleic acid molecules comprising a polynucleotide encoding a chimeric antigen receptor (CAR) comprising an antibody that specifically recognizes mesothelin, and a 4- IBB intracellular region; and a polynucleotide encoding IL- 15; and optionally a polynucleotide encoding CCL19, vectors, pharmaceutical compositions comprising the nucleic acid molecules, and methods of using the engineered immune cells.

[Continued on next page]

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