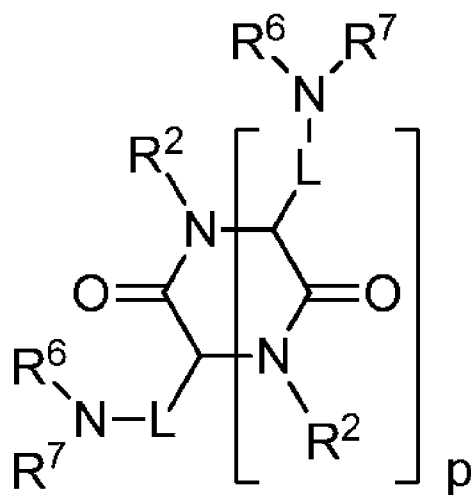




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[Continued on next page]

- (54)
- Title:**
- LIPID FORMULATIONS FOR DELIVERY OF MESSENGER RNA

**I-c**

(57) **Abstract:** The present invention provides, among other things, methods of delivering mRNA in vivo, including administering to a subject in need of delivery a composition comprising an mRNA encoding a protein, encapsulated within a liposome such that the administering of the composition results in the expression of the protein encoded by the mRNA in vivo, wherein the liposome comprises a cationic lipid of formula I-c: or a pharmaceutically acceptable salt thereof.



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