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(54) **Title:** SYSTEM PROVIDING PERHYDROLASE-CATALYZED REACTION

(57) **Abstract:** Described herein are packages for storing and dispensing multi-part tooth whitening formulations, comprising a deformable material configured to form two or more sealed chambers, e.g., wherein the first chamber contains a low viscosity liquid solution comprising an enzyme having perhydrolytic activity, and the second chamber contains a peroxide source and a at least one acyl donor substrate. Particular multi-part tooth whitening formulations using this principle and methods of use thereof are also provided.



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