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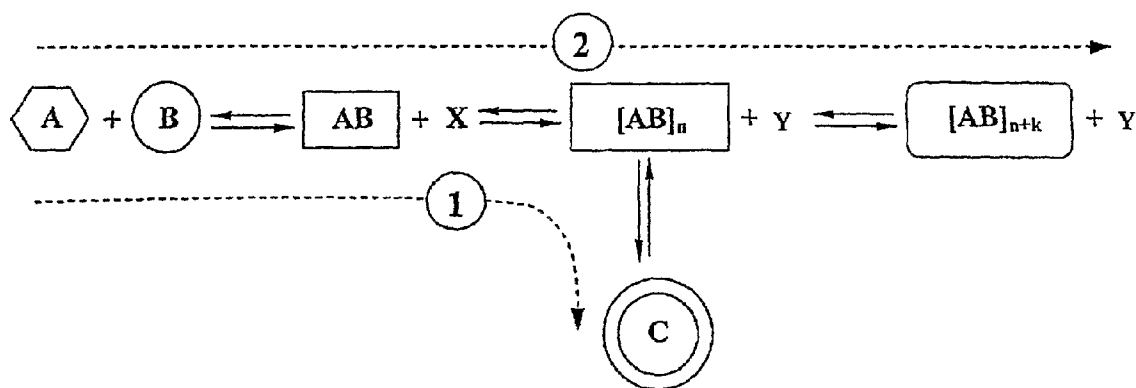
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(54) Title: METHODS, COMPOSITIONS, AND APPARATUSES FOR FORMING MACROCYCLIC COMPOUNDS



(57) Abstract: This invention relates to methods, compositions, and apparatuses for producing macrocyclic compounds. First, one or more reactants are provided in a reaction medium, which are capable of forming the macrocyclic compound through a desired reaction pathway that includes at least cyclization, and which are further capable of forming undesired oligomers through an undesired reaction pathway that includes undesirable oligomerization. Oligomerization of such reactions in the reaction medium is modulated to reduce formation of undesired oligomers and/or to reduce separation of the undesired oligomers from the reaction medium, relative to a corresponding unmodulated oligomerization reaction, thereby maximizing yields of the macrocyclic compound. The macrocyclic compound so formed is then recovered from the reaction medium. Preferably, the macrocyclic compound spontaneously separates from the reaction medium via phase separation. More preferably, the macrocyclic compound spontaneously precipitates from the reaction medium and therefore can be easily recovered by simple filtration.