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- (54) **Title:** FORMATION OF [2,2] PARACYCLOPHANE AND RELATED COMPOUNDS AND METHODS FOR THE FORMATION OF POLYMERS FROM CYCLOPHANES

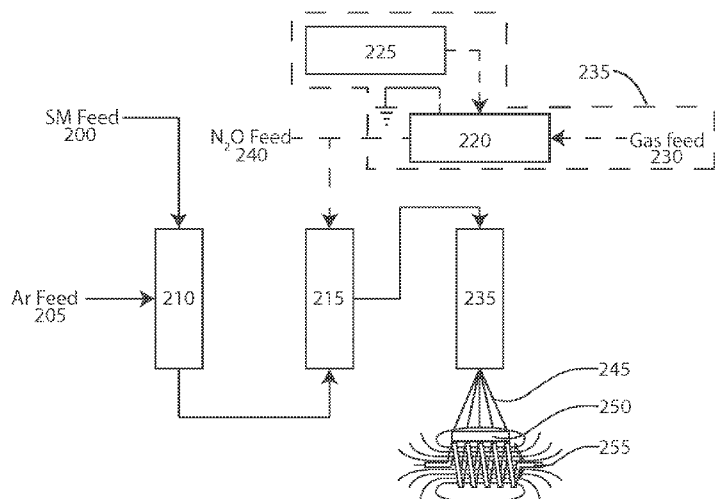


FIGURE 3

(57) **Abstract:** The present invention is an improved process and method for the formation of stable intermediate cyclophanes. The invention provides for a general method for the production of substituted and unsubstituted cyclophanes. The components of the invention are a pyrolysis reaction tube that may be electrically heated into which a flowing stream of nitrous oxide with xylene vapor in an optional inert carrier gas at atmospheric pressure. The exit gas is condensed resulting in the deposition of [2,2]paracyclophane. Additionally a process and method whereby the reactive intermediates of the reaction described above can be directly deposited and polymerized at atmospheric pressures or thereabout is disclosed.



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