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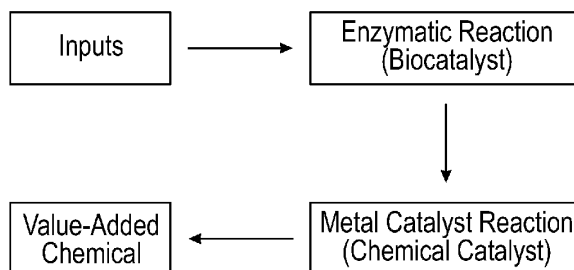


FIG. 1A

(57) Abstract: A molecular manufacturing process includes contacting a platform molecule with (i) a biocatalyst and (ii) a chemical catalyst under conditions suitable to produce a value-added chemical.

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