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[Continued on next page]

(54) Title: DIRHODIUM CATALYST COMPOSITIONS AND SYNTHETIC PROCESSES RELATED THERETO

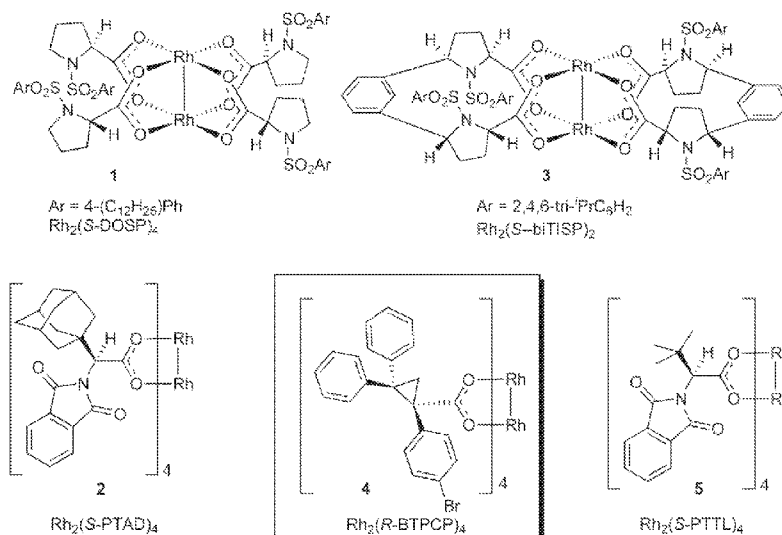
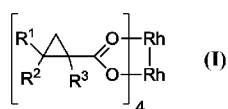


FIGURE 1



(57) Abstract: This disclosure relates to compositions comprising dirhodium catalysts and uses related thereto, e.g., in enantioselective transformations of donor/acceptor carbenoids. In certain embodiments, the dirhodium catalyst comprises a cyclopropyl ring substituted with a carboxylic acid ligand. In certain embodiments, the disclosure relates to compositions comprising a compound of the following formula, or salts thereof wherein, R¹, R², and R³ are defined herein.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED												
Minimum documentation searched (classification system followed by classification symbols)												
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)												
Esp@cenet, PAJ, CIPO, SIPO, DWPI, USPTO PatSearch EAPATIS												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
A	WO 2003/018184 A2 (THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK) 06.03.2003	1-21										
A	US 6762304 B2 (THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK) 13.07.2004	1-21										
A	US 7385064 B1 (THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK) 10.06.2008	1-21										
A	US 5789333 A (IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC.) 04.08.1998	1-21										
A	EA 013125 B1 (WACKER CHEME AG) 26.02.2010	1-21										
A	SU 319336 A1 (FILIAL INSTITUTA KHIMICHESKOI FIZIKI AN SSSR) 24.12.1971	1-21										
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