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(71) Applicant *(for all designated States except US)*: **THE MATHWORKS, INC.** [US/US]; 3 Apple Hill Drive, Natick, MA 01760 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LURIE, Roy** [ZA/US]; 4 Daniel Rd., Hopkinton, MA 01748 (US). **HICKLIN, Joseph, F.** [US/US]; 62 Hartford Ave S., Upton, MA 01568 (US). **PAXSON, Ricardo, E.** [MX/US]; 396 Marlborough St. 5, Boston, MA 02115 (US). **GULLEY, Edward, Whittington** [US/US]; 11 Belknap Terrace, Watertown, MA 02472 (US).

(74) Agent: **CANNING, Kevin, J.**; Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109 (US).

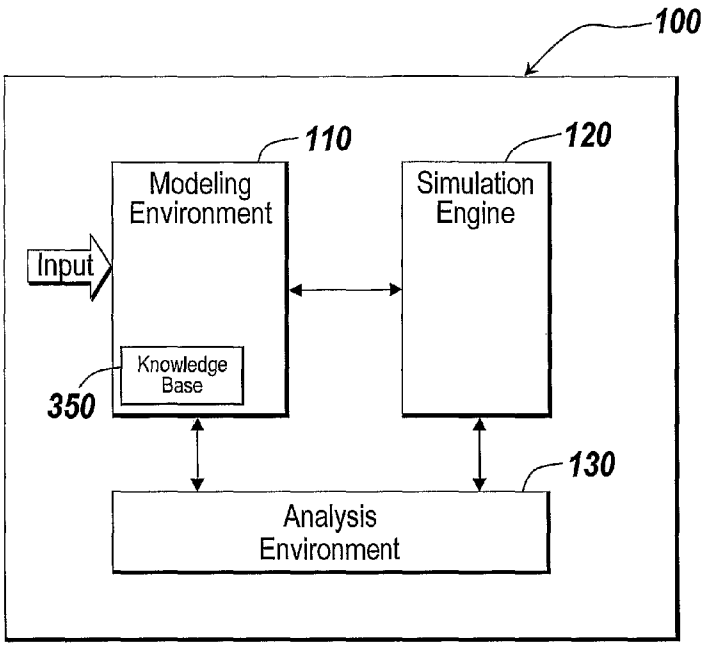
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(54) **Title:** METHOD AND APPARATUS FOR MODELLING, SIMULATING AND ANALYZING CHEMICAL REACTIONS AND BIOCHEMICAL PROCESSES



(57) **Abstract:** A system for modifying a model of a chemical reaction or biochemical process responsive to experimental results generated by an in situ experiment conducted on an experimental platform includes a simulation engine and an analysis environment. The simulation engine generates an expected result from a model of the chemical reaction or biochemical process. The analysis environment communicates with the simulation engine, gathers data from an experimental platform, and compares the expected result to data gathered from the platform.

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