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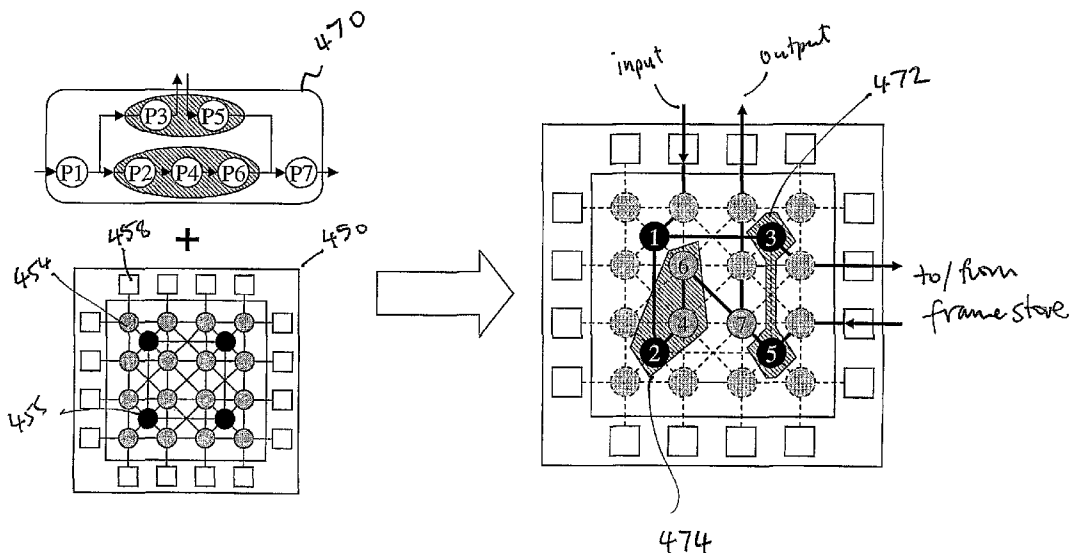
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(54) Title: INTEGRATED CIRCUIT DEVELOPMENT SYSTEM



(57) Abstract: Embodiments of the invention include a system for an integrated circuit development. Elements of the development system include hardware and software objects. These objects can be instantiated, ordered, parameterized, and connected in a software environment to implement different functions. Once in software, the description defines the topology and the properties of a set of objects and hence the overall function. These objects are hierarchically composed from a set of primitive objects. By using a piece of hardware that can model any primitive object set as pre established encapsulated hardware objects, the topology and properties define a piece of hardware that can perform the desired, implemented, functions. Using embodiments of the invention, circuit designers can design hardware systems with little or no knowledge of hardware or hardware design, requiring only a high-level software description.

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