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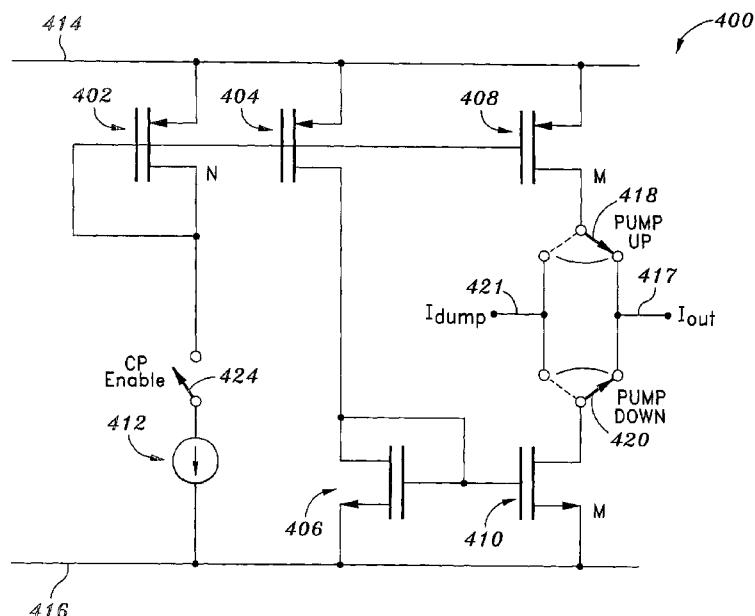
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(54) Title: CURRENT SAVING TECHNIQUE FOR CHARGE PUMP BASED PHASE LOCKED LOOPS



(57) Abstract: A charge pump circuit includes a charge pump current source configured for differential switching of an output current and a charge pump enable switch configured to turn on the charge pump current source prior to the differential switching of the output current and to turn off the charge pump current source after the differential switching of the output current, thereby saving a significant amount of current consumption by the charge pump circuit.

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