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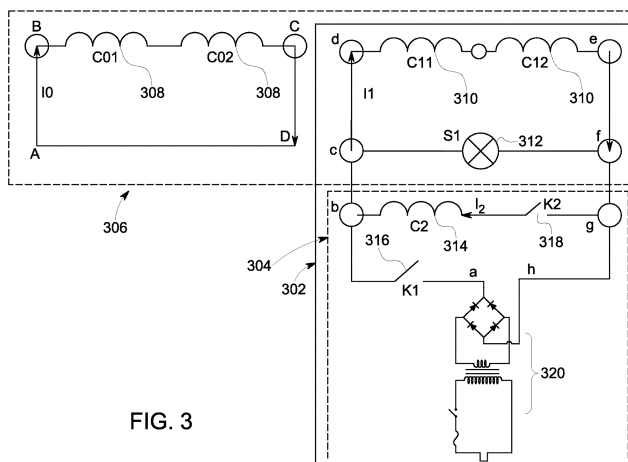
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(54) Title of the Invention: **System and method for energizing a superconducting magnet of an MRI system**
 Abstract Title: **System and method for energizing a superconducting magnet of an MRI system**

(57) A system for energizing a main coil of superconducting magnet in a magnetic resonance imaging (MRI) system includes a cryostat comprising a housing. A first coil is positioned within the housing of the cryostat. Alternatively, the first coil may be positioned external to the housing of the cryostat. A second coil is coupled to the first coil and positioned external to the housing of the cryostat. The second coil is configured to inductively couple to the main coil. A controller is coupled to the first coil and the second coil and is configured to control the first coil and the second coil to induce current in the main coil.



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