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(54) Title: PROCESS FOR MAGNESIUM METAL EXTRACTION FROM MINERAL SOURCES

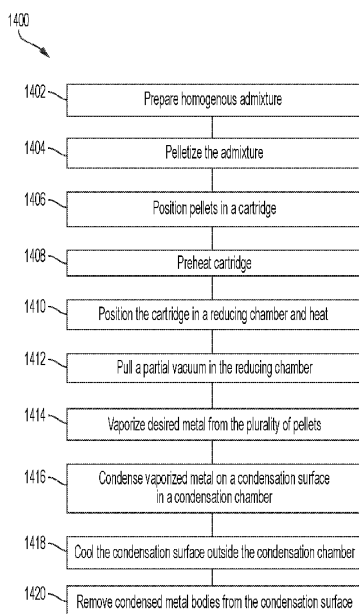


FIG. 14

(57) Abstract: The present disclosure is a metal extraction process that includes preparing a homogeneous admixture of metal oxide powder, reducing agent powder, and catalyst powder, pelletizing the admixture to yield a plurality of pellets, positioning the plurality of pellets in a cartridge, positioning the cartridge in a reducing chamber and heating the reducing chamber to a reducing temperature, pulling a partial vacuum in the reducing chamber, vaporizing desired metal from the plurality of pellets, condensing vaporized metal on a condensation surface positioned in a condensation chamber in pneumatic communication with the reducing chamber, cooling the condensation surface outside the condensation chamber, and removing condensed metal bodies from the condensation surface.

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