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[Continued on next page]

(54) Title: ALKALI METAL ION BATTERY WITH BIMETALLIC ELECTRODE

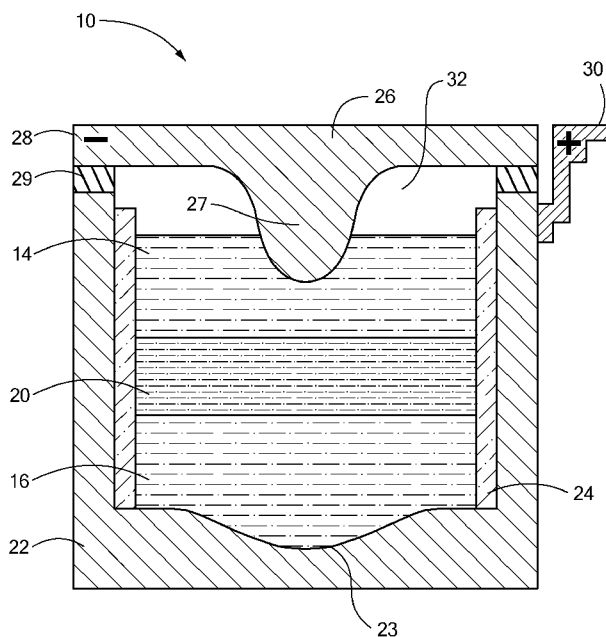


FIG. 1

(57) Abstract: Electrochemical cells having molten elec-
trodes having an alkali metal provide receipt and delivery
of power by transporting atoms of the alkali metal between
electrode environments of disparate chemical potentials
through an electrochemical pathway comprising a salt of
the alkali metal. The chemical potential of the alkali metal
is decreased when combined with one or more non-alkali
metals, thus producing a voltage between an electrode com-
prising the molten the alkali metal and the electrode com-
prising the combined alkali/non-alkali metals.



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