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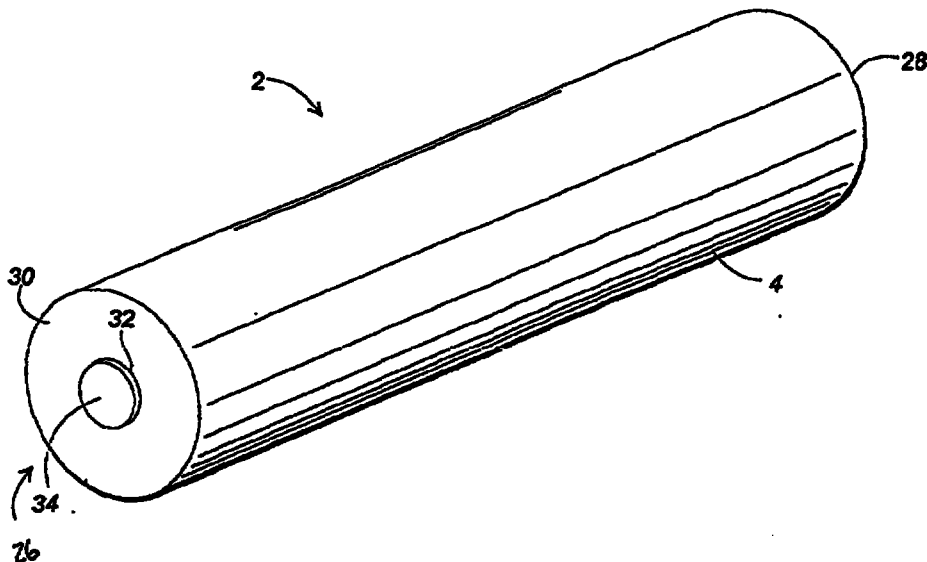
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(54) Title: SUPER CONDUCTING HEAT TRANSFER MEDIUM



## (57) Abstract

A superconducting heat transfer medium (6) that has three basic layers (20, 22, and 24), the first layer (20) being various combinations of metals and dichromate radical; the second layer (22) formed over the first layer (20) and being various combinations of metals such as cobalt, manganese, beryllium, strontium and the dichromate radical; and the third layer (24) formed over the second layer (22) and being various combinations of metal oxides, dichromates, monocrystalline silicon, strontium chromate, and  $\beta$ -titanium. The three layers (20, 22 and 24) can be applied to a conduit (4) and then heat polarized to form a superconducting heat transfer device (2) that transfers heat without any net heat loss, or can be applied to a pair of plates having a small cavity relative to a large surface area to form a heat sink (18) that can immediately disperse heat from a heat source.

\*(Referred to in PCT Gazette No. 33/1998, Section II) \*\*(Referred to in PCT Gazette No. 38/1998, Section II)