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(71) Applicant: **MOTOROLA, INC., A CORPORATION
OF THE STATE OF DELAWARE** [US/US]; 1303 East
Algonquin Road, Schaumburg, IL 60196 (US).

(72) Inventors: **ELLIOTT, Alexander, J.**; 1936 East Vinedo
Lane, Tempe, AZ 85284 (US). **CROWDER, Jeffrey, Dale**;
1632 East Windsong, Phoenix, AZ 85048 (US). **MILLER,
Monte, Gene**; 15410 18th Place, Phoenix, AZ 85048 (US).

(74) Agents: **WUAMETT, Jennifer, B. et al.**; SPS Patent
Operation Manager - on behalf of Motorola, Inc., Corpo-
rate Law Department, Intellectual Property Section, MD:
TX32/PL02, 7700 West Parmer Lane, Austin, TX 78729
(US).

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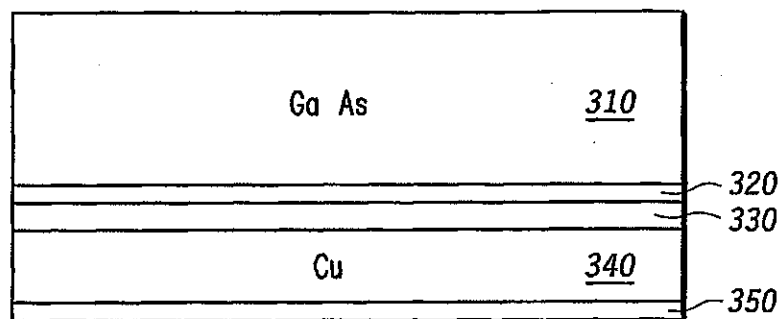
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(54) Title: **THIN GAAS DIE WITH COPPER BACK-METAL STRUCTURE**

300



(57) Abstract: A thin GaAs Substrate (310) can be provided with a copper back-metal layer (340) to allow the GaAs Substrate to be packaged using conventional plastic packaging technologies. By providing the GaAs Substrate with a copper back-metal layer, the GaAs Substrate can be made thinner than 2 mils (about 50 microns), thereby reducing heat dissipation problems and allowing the semiconductor die to be compatible with soft-solder technologies. By enabling the semiconductor die to be packaged in a plastic package substantial cost savings can be achieved.

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