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(71) Applicant: **MOTOROLA, INC.** [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US).

(72) Inventors: **DURLAM, Mark**; 4076 West Orchid Lane, Chandler, AZ 85226 (US). **CHEN, Eugene, Youjun**; 1143 West Sherri Drive, Chandler, AZ 85233 (US). **TEHRANI, Saied, N.**; 1917 East Palomino Drive, Tempe, AZ 85284 (US). **SLAUGHTER, Jon, Michael**; 9251 South Kenneth Place, Tempe, AZ 85284 (US). **KERSZYKOWSKI, Gloria,**; 14040 North Sunflower Drive, Fountain Hills, AZ 85268 (US). **KYLER, Kelly, Wayne**; 2303 East Garnet Avenue, Mesa, AZ 85204 (US).

(74) Agents: **INGRASSIA, Vincent, B.** et al.; P.O. Box 10219, Scottsdale, AZ 85271-0219 (US).

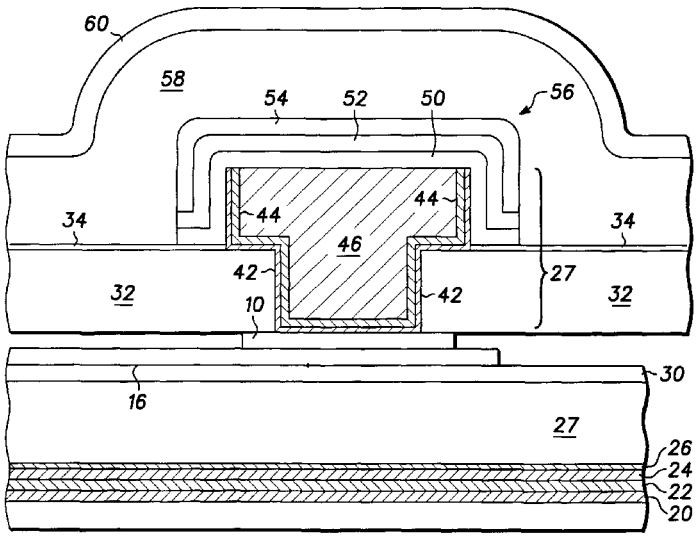
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(54) Title: METHOD OF FABRICATING FLUX CONCENTRATING LAYER FOR USE WITH MAGNETORESISTIVE RANDOM ACCESS MEMORIES



(57) Abstract: A method of fabricating a flux concentrator for use in magnetic memory devices including the steps of providing at least one magnetic memory bit (10) and forming proximate thereto a material stack defining a copper (Cu) damascene bit line (56) including a flux concentrating layer (52). The method includes the steps of depositing a bottom dielectric layer (32), an optional etch stop (34) layer, and a top dielectric layer (36) proximate the magnetic memory bit (10). A trench (38) is etched in the top dielectric layer (36) and the bottom dielectric layer (32). A first barrier layer (42) is deposited in the trench (38). Next, a metal system (29) is deposited on a surface of the first barrier layer (42). The metal system (29) includes a copper (Cu) seed material (44), and a plated copper (Cu) material (46), a first outside barrier layer (50), a flux concentrating layer (52), and a second outside barrier layer (54). The metal system (29) is patterned and etched to define a copper (Cu) damascene bit line (56).

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