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SECOND POLE PIECE OF A WRITE HEAD FABRICATED BY HIGH ASPECT RATIO LITHOGRAPHY AND IMAGE TRANSFER

ABSTRACT

A method of making a magnetic write head includes forming a strip of negative photoresist (310) on a wafer (200) at an ABS (air bearing surface) site with a width that defines a second pole tip (P2). An alumina layer (306) is formed on the wafer and on the strip with a thickness above the wafer that is equal to or greater than a desired height of the second pole tip. The alumina layer is then mechanically polished until the negative photoresist strip is exposed. The negative photoresist strip is then removed leaving an opening (312, 314) in the alumina layer after which the second pole tip is formed in the opening.

FIG.9