

MAGNETIC TRANSDUCER FOR PERPENDICULAR MAGNETIC RECORDING WITH SEPARATE READ AND WRITE HEADS

Abstract

The invention is a magnetic transducer with separated read and write heads for perpendicular recording. The write head has a trailing shield that
5 extends from the return pole piece toward the main pole piece to form the write gap at the air-bearing surface. One embodiment of the trailing shield is a two part structure with a pedestal and a much smaller tip that confronts the main pole piece at the gap. In one embodiment a sink of non-magnetic, electrically
10 the flux bearing pole piece. The sink is preferably made of copper and does not extend to the ABS.

FIGURE 2