CENTER RAIL SLIDER FOR PROXIMITY RECORDING

ABSTRACT

A self-loading disc head slider (36) is configured for supporting a transducer (44) proximate a rotating disc. The transducer includes a slider body having a leading edge (50), a trailing edge (52) and first and second side edges (54, 56). First and second raised side rails (38, 40) extend from the leading edge toward the trailing edge and terminate prior to the trailing edge. The first and second raised side rails each form a bearing surface (57, 58) having a leading portion (59), a trailing portion (62) and a waist portion (60) therebetween. The waist portion is narrower than the leading and trailing portions. A subambient pressure cavity (64) is positioned between the first and second raised side rails. A raised cavity dam (66) extends from the first raised side rail to the second raised rail and is recessed from the bearing surfaces. A leading edge taper (70) extends from the first side edge to the second side edge and has a recess (74) along the cavity dam. A raised center rail (42) is positioned at the trailing edge of the slider body between the first and second side edges. The transducer is mounted on the raised center rail along the trailing edge of the slider body.

Fig. 4.

This Sheet Has Been Replaced

