WHAT IS CLAIMED IS :

1. Head locating actuator for locating a reading/writing head (11) with respect to a recording disk (3), comprising
   - a head carrier member (6, 7) supported by a supporting member (12),
   - driving means (8, 9, 10) for moving said carrier member (7) to locate said reading/writing head (11) at a desired position on said recording disk (3),
   - a base (1) supporting said supporting member (12), and
   - a flex circuit (4) having electrical signal lines (11) and being fixed at its one end (4a) in a first fixing point (A) to said carrier member (6, 7) and at its other end (4b) in a second fixing point (B) to said base (1) and having a curved intermediate portion (4c),

   characterized in that
   - the tangent line of the one end (4a) of the flex circuit (4) in the first fixing point (A) is directed tangential to the moving path of the carrier member (7), so that in said first fixing point (A) the larger vector component (Fr) of a dynamic reaction force generated by vibrations of the flex circuit (4) acts substantially in the direction of a radial line (X) going through the origin (O) of the supporting member (7) and the first fixing point A, and
   - the second fixing point (B) of the other end (4b) of the flex circuit (4) is disposed from the first fixing point (A) in a distance (x) which is 1 to 3 times

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greater than the tilting radius (r) of the support member (7) in the first fixing point (A) and from the radial line (X) in a distance y, which is not greater than said tilting radius (r).

2. Actuator according to claim 1, characterized in that in the first fixing point (A) the angle θ_A between the radial line (X) and the direction of the smaller component (Ft) of the reaction force is 80 to 100°.

3. Actuator according to claim 1 or 2, characterized in that in the second fixing point (B) the end (4b) of the flex circuit (4) forms an angle θ_B to the radial line (X) and the difference between the absolute values of the angles θ_A and θ_B, expressed by $|\theta_A| - |\theta_B|$, is a range of $\pm$ 10°.

4. Actuator according to one of the claims 1 to 3, characterized in that the ratio (L/r) of the length (L) of the curved intermediate portion (4c) of the flex circuit (4) to the tilting radius (r) of the supporting member (7) is not greater than 8.

5. Actuator according to one of the claims 1 to 4, characterized in that said driving means causes a linear movement of said carrier member (7).

6. Disk apparatus including the head locating apparatus of one of the preceding claims.

7. Information processing apparatus including the disk apparatus of claim 6.

HEAD LOCATING ACTUATOR AND DISK APPARATUS INCORPORATING THE SAME

ABSTRACT OF THE DISCLOSURE

A disk locating actuator of a disk apparatus has a carrier member carrying a head and a curved flexible printed circuit fixed at its one end to the carrier member and at its other end to a base. Angles at which the flexible printed circuit is fixed are suitably determined so as to diminish any dynamic reacting force produced by vibration of the flexible printed circuit, thus ensuring high degree of head locating precision.

Figure 1