

ABSTRACT**OFF-AXIS OPTICAL PICKUP MECHANISM
FOR DUAL-SIDED OPTICAL STORAGE DISCS**

An off-axis optical pickup mechanism for dual-sided optical storage discs comprises an optical pickup unit (OPU) connected to an optical pipe. A baffle is provided which surrounds the OPU and a cover is provided which is placed on top of the baffle. To be able to controllably rotate the optical pipe, a first gear is attached to the pipe. The first gear is meshed with the second gear which is connected to the motor. The optical pipe comprises a top hollow tube having a top channel and a bottom tube having a bottom channel, and a main body having a main channel. Each channel terminates to a lens element. The optical pickup mechanism should be positioned in an optical storage drive such that an optical storage disc can be placed in between the two lens element of the optical pipe.

FIG. 2