

Abstract

Methods for producing hard disk drives of reduced size, hard disk drives produced by the method, and systems including the hard disks.

A HDD system includes one or more MEMS spindle motors, and one or more
5 magnetic heads. Each spindle motor includes a rotor 127, 210 and a stator
207. The rotor 127, 210 carries a film of magnetic film, and a head 211 is
arranged to communicate data with the magnetic film. The rotors 127, 210 are
formed by MEMS technology. Rotor elements 6 are formed within a substrate
4, and the substrate is subsequently cut to sigulate the rotor elements 6, and
10 turn them into rotors 127, 210.

[Fig. 11(f)]