

ABSTRACT

THIN FILM MAGNETIC RECORDING MEDIA

5 A method and apparatus for forming a thin film magnetic recording media,
the method comprises generating magnetic nanoclusters from a target of
magnetic material, crystallizing the magnetic nanoclusters, and depositing the
magnetic nanoclusters onto a substrate to form a thin film of magnetic particles
thereon. The magnetic nanoclusters are deposited onto the substrate after
10 crystallized and therefore after the deposition. The apparatus comprises a first
chamber, a second chamber connected to the first chamber, and a third chamber
connected to the second chamber. The first chamber has a source for generating
magnetic nanoclusters. The second chamber is to receive the magnetic
nanoclusters and crystallize the magnetic nanoclusters. The third chamber is to
15 receive the crystallized magnetic nanoclusters from the second chamber and
deposit the crystallized magnetic nanoclusters onto the substrate positioned
therein.

(Fig. 4)



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