

MAGNETIC RECORDING MEDIUM, METHOD FOR MANUFACTURING RECORDING
MEDIUM AND MAGNETIC RECORDING APPARATUS

ABSTRACT OF THE DISCLOSURE

5 A grain diameter controlling crystalline layer comprising
crystalline grains of a metal selected from the group
consisting essentially of Cu, Ni, Rh and Pt was formed on a
substrate. Then, deposited atom layer of at least one element
selected from the group consisting of oxygen and carbon was
10 formed on the surface of the grain diameter control layer. A
magnetic recording layer was deposited on the atoms deposited
grain diameter controlling crystalline layer. Then a magnetic
recording medium in which the magnetic crystalline grains has
small grain diameter and small grain diameter distribution, and
15 the magnetic recording medium shows increased signal to noise
ratio at high recording density.

Fig. 1