

Title (en)

DIAMOND-LIKE CARBON COATED TRANSDUCERS FOR MAGNETIC RECORDING MEDIA

Title (de)

DIAMANTARTIGE KOHLENSTOFFBEHANDELTE SENSOREN FÜR MAGNETISCHE AUFZEICHNUNGSMEDIEN

Title (fr)

TRANSDUCTEURS REVETUS DE CARBONE PROCHE DU DIAMANT, POUR SUPPORTS D'ENREGISTREMENT MAGNETIQUES

Publication

EP 0804630 A1 19971105 (EN)

Application

EP 95913562 A 19950301

Priority

- US 9502760 W 19950301
- US 20570194 A 19940303

Abstract (en)

[origin: WO9523878A1] A method is provided for manufacturing a diamond-like carbon coated magnetic transducer assembly with superior wear resistance, and improved lifetime. The invention discloses a magnetic transducer with a composite coating structure including an adhesion-enhancing a first interlayer containing silicon and an ion beam deposited DLC top layer. According to the method, the surface of the magnetic transducer substrate surface (3) is bombarded with energetic ions from an ion source (4) to preform sputter etching, a silicon containing interlayer is deposited utilizing an ion beam source (7) and a target (10) to sputter deposit the interlayer, and following completion of the deposition of the interlayer a DLC top layer is deposited by ion beam deposition.

IPC 1-7

C23C 14/00; **G11B 5/255**

IPC 8 full level

C23C 14/02 (2006.01); **C23C 14/06** (2006.01); **C23C 14/22** (2006.01); **G11B 5/10** (2006.01); **G11B 5/255** (2006.01); **G11B 5/31** (2006.01); **G11B 5/40** (2006.01)

CPC (source: EP)

C23C 14/022 (2013.01); **C23C 14/0605** (2013.01); **C23C 14/221** (2013.01); **G11B 5/10** (2013.01); **G11B 5/255** (2013.01); **G11B 5/3106** (2013.01); **G11B 5/40** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9523878 A1 19950908; CA 2184737 A1 19950908; EP 0804630 A1 19971105; EP 0804630 A4 19980610

DOCDB simple family (application)

US 9502760 W 19950301; CA 2184737 A 19950301; EP 95913562 A 19950301