PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

9906469-2
P02

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :
G11B 7/26

A2

(11) International Publication Number: WO 99/04393

(43) International Publication Date: 28 January 1999 (28.01.99)

(21) International Application Number: PCT/SE98/01387

(22) International Filing Date: 15 July 1998 (15.07.98)

(30) Priority Data:

9702734-6	16 July 1997 (16.07.97)	SE
9703480-5	25 September 1997 (25.09.97)	SE

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
Without international search report and to be republished upon receipt of that report.

(71) Applicant *(for all designated States except US)*: TOOLEX ALPHA AB [SE/SE]; P.O. Box 1176, S-172 24 Sundbyberg (SE).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: BILLMAN, Åke [SE/SE]; Gryningsvägen 9, S-177 61 Järfälla (SE). ÖHMAN, Ove [SE/SE]; Asplunda, Uppsala Näs, S-755 91 Uppsala (SE).

(74) Agents: ANDERSSON, Michael et al.; Albihns Patentbyrå Stockholm AB, P.O. Box 3137, S-103 62 Stockholm (SE).

(54) Title: STAMPER AND METHOD OF MANUFACTURING THE SAME

(57) Abstract

The invention relates to a stamper for replication of optical discs and to a method of obtaining such a stamper. The method comprises the steps of: a) obtaining a substantially disc-shaped member (100) having a first surface (105; 106); and a second surface (112) forming a back surface of the semi-manufactured stamper; said first surface being provided with a guide track (6; 6') for indicating structurable surface portions (106') of said member (100; 130); said structurable surface portions (106') being flat and substantially unstructured; b) applying a layer (120; 240;) sensitive to irradiation on said first surface (105) such that an unexposed and exposable semi-manufactured stamper is provided; c) enclosing the unexposed semi-manufactured stamper in a protective package such that the sensitive film is maintained substantially unexposed; and d) treating (S30) the semi-manufactured stamper, before performing step c), said treatment including: d1) treating said second surface (112) of the semi-manufactured stamper such that a mean surface deviation value (R_z) below (2) micrometer is obtained.

