

## Title (en)

HARDCOATS FOR FLAT PANEL DISPLAY SUBSTRATES

## Title (de)

HARTBESCHICHTUNGEN FÜR SUBSTRATE FÜR EINE FLACHE ANZEIGETAFEL

## Title (fr)

COUCHES DE PROTECTION POUR SUBSTRATS D'AFFICHAGE A ECRAN PLAT

## Publication

**EP 1109947 A4 20040922 (EN)**

## Application

**EP 99938873 A 19990727**

## Priority

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- US 9424498 P 19980727

## Abstract (en)

[origin: WO0006794A1] The present invention relates to a unique hard coating that provides the necessary characteristics for flat panel display plastic substrates because the coating is amorphous and is comprised of C, H, Si and O. The coating of the present invention is hard, optically transparent, scratch and abrasion resistant and hydrophobic. It is deposited by a low density, low temperature plasma enhanced chemical vapor deposition (PECVD) process and exhibits excellent barrier protection and reduced permeability to moisture, oxygen, helium and other vapors.

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## Citation (search report)

- [DX] US 5618619 A 19970408 - PETRMICHL RUDOLPH H [US], et al
- [XY] US 5728465 A 19980317 - DORFMAN VENIAMIN F [US], et al
- [Y] KUNIHIRO KASHIWAGI ET AL: "HYBRID FILMS FORMED FROM HEXAMETHYLDISILOXANE AND SIO BY PLASMA PROCESS", JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, vol. 30, no. 8, 1 August 1991 (1991-08-01), pages 1803 - 1807, XP000265591, ISSN: 0021-4922
- [A] PATENT ABSTRACTS OF JAPAN vol. 0091, no. 61 (P - 370) 5 July 1985 (1985-07-05)
- See references of WO 0006794A1

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