

[SS 10] Laminar and body and greenhouse and cultivation and nano and particles and TiO₂

Results in EPODOC 2

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PN - [CN103957692](#) A 20140730

PNFP - CN103957692B B 20170711

PR - WO20121856005 20121030; IT2011PD00341 20111031

AP - CN2012853865 20121030

DT - I

CT - || STSE (A)

[JP2005255558](#) A 20050922 [A] (SARUTA SHIKI NOSAN KK)

[A] 1-38

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[CN1927930](#) A 20070314 [A] (UNIV SHANGHAI [CN])

[A] 1-38

* 全文 *;

[CN1211202C](#) C 20050720 [Y] (SUMIKA PLASTECH CO LTD [JP])

[Y] 1-23,27,34-38

* 说明书第6页倒数第2段—21页第4段 *;

[CN101331842](#) A 20081231 [A] (LIAOCHENG HUASU IND CO LTD [CN])

[A] 1-38

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[WO02062578](#) A1 20020815 [A] (MITSUBISHI POLYESTER FILM GMBH [DE], et al)

[A] 1-38

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[WO02062578](#) A1 20020815 [A] (MITSUBISHI POLYESTER FILM GMBH [DE], et al)

[A] 1-38

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[CN1211202](#) A 19990317 [Y] (HERHOF UMWELTECHNIC GMBH [DE])

[Y] 1-23,27,34-38

* 说明书第6页倒数第2段—21页第4段 *

CTNP - || STSE (A)

[A] - 张青山等, "《纳米二氧化钛光催化作用及其在环境领域中的应用》", 《青岛化工学院学报》, (20021215), vol. 23, no. 4, pages 13 - 16

[A] 1-38

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[Y] - 张青山等, "《Antibacteria and detoxification function of polystyrene/TiO₂ nanocomposites》", 《JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY》, (20070101), vol. 28, no. 6

[Y] 1-23,27,34-38

* 第1页第2栏第1段—第5页第2栏第5段, 表2—3 *

CCI - [A01G9/1438](#) ; [B32B27/20](#) ; [B32B27/306](#) ; [C08J3/226](#) ; [C08K3/22](#) ; [C08K5/10](#) ;

[C08K5/1535](#)

CUI - [A01G9/14](#) ; [C08K3/34](#)

CCA - [C08L23/12](#) ; [C08L31/04](#) ; [B32B2264/102](#) ; [C08K2003/2241](#) ; [C08K2201/011](#) ; [Y10T428/256](#) ; [Y02A40/252](#)

PA - (A)
ULTRABATCH S R L

TI - (A)
Laminar body for making **greenhouse** roofs and method of **greenhouse cultivation**

AB - (A)
The invention relates to. a **laminar body** for making **greenhouse** roofs, comprising at least one **laminar** layer, which defines at least one main surface of the **laminar body** and comprises a polymer matrix and **nano-particles** of titanium dioxide **TiO2** in the anatase and/or rutile form, dispersed in the polymer matrix. The **nano-particles** have dimensions not greater than 100 nm. The titanium dioxide is present with a concentration in weight of between 30 and 1500 ppm in relation to the polymer matrix. The invention also relates to a method of **greenhouse cultivation** and the use of the **laminar body** according to the invention for making **greenhouse** roofs. The invention also relates to a **greenhouse** having a roof comprising at least one **laminar body** according to the invention and to a masterbatch for making a **laminar** layer of a **laminar body** according to the invention.

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PN - [US2014157663](#) A1 20140612

PNFP - US10015933 B2 20180710

PR - IT2011PD00341 20111031; WO2012IB56005 20121030

AP - US201214233702 20121030

DT - **

CCI - [A01G9/1438](#) ; [B32B27/20](#) ; [B32B27/306](#) ; [C08J3/226](#) ; [C08K3/22](#) ; [C08K5/10](#) ; [C08K5/1535](#)

CUI - [A01G9/14](#) ; [C08K3/34](#)

CCA - [C08L23/12](#) ; [C08L31/04](#) ; [B32B2264/102](#) ; [C08K2003/2241](#) ; [C08K2201/011](#) ; [Y10T428/256](#) ; [Y02A40/252](#)

PA - (A1)
ULTRABATCH S R L [IT]
- (B2)
CYTEC IND INC [US]

TI - (A1)
LAMINAR BODY FOR MAKING GREENHOUSE ROOFS AND METHODS OF GREENHOUSE CULTIVATION
- (B2)
Laminar body for making **greenhouse** roofs and methods of **greenhouse cultivation**

AB - (A1)
The invention relates to a **laminar body** for making **greenhouse** roofs, comprising at least one **laminar** layer, which defines at least one main surface of the **laminar body** and comprises a polymer matrix and **nano-particles** of titanium dioxide **TiO2** in the anatase

and/or rutilium form, dispersed in the polymer matrix. The **nano-particles** have dimensions not greater than 100 nm. The titanium dioxide is present with a concentration in weight of between '30 and 1500 ppm in relation to the polymer matrix. The invention also relates to a method of **greenhouse cultivation** and the use of the **laminar body** according to the invention for making **greenhouse** roofs. The invention also relates to a **greenhouse** having a roof comprising at least one **laminar body** according to the invention and to a masterbatch for making a **laminar** layer of a **laminar body** according to the invention.

- (B2)

The invention relates to a **laminar body** for making **greenhouse** roofs, comprising at least one **laminar** layer, which defines at least one main surface of the **laminar body** and comprises a polymer matrix and **nano-particles** of titanium dioxide **TiO₂** in the anatase and/or rutilium form, dispersed in the polymer matrix. The **nano-particles** have dimensions not greater than 100 nm. The titanium dioxide is present with a concentration in weight of between '30 and 1500 ppm in relation to the polymer matrix. The invention also relates to a method of **greenhouse cultivation** and the use of the **laminar body** according to the invention for making **greenhouse** roofs. The invention also relates to a **greenhouse** having a roof comprising at least one **laminar body** according to the invention and to a masterbatch for making a **laminar** layer of a **laminar body** according to the invention.