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## Search Patents

**Foldable and deployable assembly of elements mounted on board a spacecraft**

**Publication number:** 20040245402

**Abstract:** Foldable and deployable assembly of elements mounted on board a spacecraft.

**Type:** Application

**Filed:** March 25, 2004

**Publication date:** December 9, 2004

**Applicant:** EADS Space Transportation SA

**Inventors:** Christian Desagulier, Patrick Cordier, Stephane Baril

**RADIO ANTENNA INCLUDING IMPROVED MEANS OF RIGIDIFICATION**

**Publication number:** 20120019430

**Abstract:** A radio antenna, in particular for a spacecraft, including a reflector and a rear structure supporting said reflector, and also a rigidification membrane added on to the reflector so as to limit the displacement of a peripheral portion of the reflector in a direction parallel to a central axis of this reflector, where said rigidification membrane is separate from the rear supporting structure.

**Type:** Application

**Filed:** April 2, 2010

**Publication date:** January 26, 2012

**Applicant:** ASTRIUM SAS

**Inventor:** Christian Desagulier

**RADIO ANTENNA**

**Publication number:** 20120026055

**Abstract:** The invention concerns a radio antenna for a space satellite, including a reflector and means of support of this reflector. The reflector includes a front skin able

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**Filed:** April 2, 2010

**Publication date:** February 2, 2012

**Applicant:** ASTRIUM SAS

**Inventor:** Christian Desagulier

#### **Radio antenna**

**Patent number:** 8872718

**Abstract:** The invention concerns a radio antenna for a space satellite, including a reflector and means of support of this reflector. The reflector includes a front skin able to reflect radio waves, a rigid rear structure supported by the means of support, and a layer of elastic material interposed between said front skin and said rigid rear structure, able to dampen the vibrations of the front skin.

**Type:** Grant

**Filed:** April 2, 2010

**Date of Patent:** October 28, 2014

**Assignee:** Astrium SAS

**Inventor:** Christian Desagulier

#### **RADIO ANTENNA WITH IMPROVED DECOUPLING ANGLES**

**Publication number:** 20120026056

**Abstract:** A radio antenna, particularly for a spacecraft, including a reflector and means of support of this reflector, where the reflector includes a body able to reflect radio waves, and a rigid rear structure supported by the means of support and connected to the body by decoupling angles, wherein each of said decoupling angles includes, at one at least of its ends, a layer of elastic material able to dampen at least one axial component of vibrations of the body.

**Type:** Application

**Filed:** April 2, 2010

**Publication date:** February 2, 2012

**Applicant:** ASTRIUM SAS

**Inventor:** Christian Desagulier

#### **Method for producing a non-developable surface printed circuit and the thus obtained printed circuit**

**Patent number:** 8481858

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conductive varnish, and a coating, which is arranged on the base and made of an electrically well conductive material by buffer electrolysis.

**Type:** Grant

**Filed:** October 24, 2006

**Date of Patent:** July 9, 2013

**Assignee:** Astrium SAS

**Inventor:** Christian Desagulier

#### **Foldable and deployable assembly of elements mounted on board a spacecraft**

**Patent number:** 7093804

**Abstract:** According to invention, said elements (1.1 to 1.n) are secured to the same side (3) of a flexible inflatable mattress (4) and, when said elements are in the folded state, said mattress (4) is in the deflated state and is folded so that said elements are situated in pairs on either side of a fold (5.1 to 5.n?1) of said mattress.

**Type:** Grant

**Filed:** March 25, 2004

**Date of Patent:** August 22, 2006

**Assignee:** EADS Space Transportation SA

**Inventors:** Christian Desagulier, Patrick Cordier, Stéphane Baril

#### **METHOD FOR MAKING A SANDWICH TYPE COMPOSITE BY CO-FIRING**

**Publication number:** 20140110051

**Abstract:** The invention provides a method for making a composite (10) including two skins (14) of composite material bonded on either side of a core (12) having the form of a honeycomb type panel, including a step of firing the skins (14) onto the core (12) to simultaneously carry out hardening of the skins (14) and bonding of the skins (14) with the core (12), characterised in that it consists in placing a rigidifying layer (22) between the core (12) and at least one skin (14).

**Type:** Application

**Filed:** June 12, 2012

**Publication date:** April 24, 2014

**Applicant:** ASTRIUM SAS

**Inventors:** Christian Desagulier, Frédéric Veilleraud, Florian Lavelle

#### **Method for Producing a Non-Developable Surface Printed Circuit and the Thus Obtained**

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each electrically conductive pattern (7) of a printed circuit (2) comprises a base (7E), which is arranged on the non-developable surface (6) and obtained by projecting an electrically conductive varnish, and a coating (7R), which is arranged on said base (7E) and made of an electrically well conductive material by means of buffer electrolysis.

**Type:** Application

**Filed:** October 24, 2006

**Publication date:** November 6, 2008

**Applicant:** Astrium SAS

**Inventor:** Christian Desagulier

**Method For Forming Electrically Conductive Patterns on an Insulating Substrate, and Resulting Device**

**Publication number:** 20080134501

**Abstract:** The invention concerns a method which consists in coating uniformly the non-developable surface (6) with an electrically conductive material (9), which is in turn coated, by spraying, with a pattern (10) of polymerizable protective material, said pattern being polymerized as it is being formed, and then selectively eliminating, through the openings (10.8) of said pattern (10), the portions of said electrically conductive material (9) which do not over said electrically conductive patterns.

**Type:** Application

**Filed:** February 20, 2006

**Publication date:** June 12, 2008

**Applicant:** ASTRIUM SAS

**Inventors:** Christian Desagulier, Alain Lacombe, Bruno Esmiller

**Method of making electrically conductive patterns on a substrate**

**Patent number:** 7726015

**Abstract:** The invention concerns a method which consists in coating uniformly the non-developable surface (6) with an electrically conductive material (9), which is in turn coated, by spraying, with a pattern (10) of polymerizable protective material, said pattern being polymerized as it is being formed, and then selectively eliminating, through the openings (10.8) of said pattern (10), the portions of said electrically conductive material (9) which do not over said electrically conductive patterns.

**Type:** Grant

**Filed:** February 20, 2006

**Date of Patent:** June 1, 2010

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**Method For Producing Electrically Conductive Patterns on a Non-Developable Surface of an Insulating Substrate, and Resulting Device****Publication number:** 20080210456

**Abstract:** The invention concerns a method for producing electrically conductive patterns on a non-developable surface of an insulating substrate, and the resulting device. The invention is characterized in that it consists in: coating the non-developable surface (6) uniformly with a layer of electrically conductive material (9), which is in turn coated with a layer of protective material (10), and then, using a mobile laser head, eliminating by laser ablation the portions of said protective substance layer (10) which do not cover said electrically conductive patterns, then eliminating the portions of said electrically conductive material (9) exposed by the elimination of said portions of said protective material layer (10).

**Type:** Application**Filed:** February 20, 2006**Publication date:** September 4, 2008**Applicant:** ASTRIUM SAS**Inventors:** Christian Desagulier, Alain Lacombe, Bruno Esmiller**Method of producing electrically conductive patterns on a substrate****Patent number:** 7721426

**Abstract:** The invention concerns a method for producing electrically conductive patterns on a non-developable surface of an insulating substrate, and the resulting device. The invention is characterized in that it consists in: coating the non-developable surface (6) uniformly with a layer of electrically conductive material (9), which is in turn coated with a layer of protective material (10), and then, using a mobile laser head, eliminating by laser ablation the portions of said protective substance layer (10) which do not cover said electrically conductive patterns, then eliminating the portions of said electrically conductive material (9) exposed by the elimination of said portions of said protective material layer (10).

**Type:** Grant**Filed:** February 20, 2006**Date of Patent:** May 25, 2010**Assignee:** Astrium SAS**Inventors:** Christian Desagulier, Alain Lacombe, Bruno Esmiller

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providing a glass blank with low coefficient of expansion, machining a convex shape (4) in the glass blank, laying a front skin (6) impregnated with resin over the convex shape (4) of the glass blank (2), machining in a rear supporting structure (8) a concave shape matching the convex shape machined in the glass blank (2), gluing the concave shape (10) of the supporting structure (8) onto the convex shape of the glass blank (2), machining a convex shape in the supporting structure, laying a rear skin (14) impregnated with resin on a mould, gluing the rear skin (14) onto the convex shape of the supporting structure (8), turning over the assembly so that the blank (2) lies in the upper portion of the assembly, machining and polishing a mirror in the glass blank (2).

**Type:** Application

**Filed:** January 17, 2011

**Publication date:** November 22, 2012

**Applicant:** ASTRIUM SAS

**Inventors:** Christian Desagulier, Stephane Baril

**Method for producing a composite mirror and composite mirror obtained with same**

**Patent number:** 9643367

**Abstract:** A method for producing a composite mirror. It comprises the steps of providing a glass blank with low coefficient of expansion, machining a convex shape (4) in the glass blank, laying a front skin (6) impregnated with resin over the convex shape (4) of the glass blank (2), machining in a rear supporting structure (8) a concave shape matching the convex shape machined in the glass blank (2), gluing the concave shape (10) of the supporting structure (8) onto the convex shape of the glass blank (2), machining a convex shape in the supporting structure, laying a rear skin (14) impregnated with resin on a mold, gluing the rear skin (14) onto the convex shape of the supporting structure (8), turning over the assembly so that the blank (2) lies in the upper portion of the assembly, machining and polishing a mirror in the glass blank (2).

**Type:** Grant

**Filed:** January 17, 2011

**Date of Patent:** May 9, 2017

**Assignee:** ASTRIUM SAS

**Inventors:** Christian Desagulier, Stephane Baril

**Method for producing high dimensional precision composite elements using ionization polymerization and elements produced by said method**

**Patent number:** 5051808

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matrix. The method includes placing at least one lap of fibers preimpregnated with an ionization polymerizable resin on a mold to form the skin, the mold having a predetermined shape and dimensions for the element to be produced; placing a film of an ionization polymerizable adhesive resin on the skin; placing the support panel on the film to form a skin/film/panel unit, the support panel having a predetermined thickness; compacting the skin/film/panel unit; and polymerizing the polymerizable resins during the compacting by subjecting the skin/film/panel unit to ionization.

**Type:** Grant

**Filed:** January 29, 1997

**Date of Patent:** September 14, 1999

**Assignee:** Societe Nationale Industrielle et Aerospatiale

**Inventors:** Dominique Lacour, Sylvie His, Fran.cedilla.ois Raut, Christian Desagulier, Nathalie Chieusse

## Narrow Results

### Filter by US Classification

29/847 (3)

343/834 (3)

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174/264 (2)

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29/852 (2)

427/98.4 (1)

428/426 (1)

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