

Patents

PAT 466 COMBINED PROPULSION SYSTEM FOR A SPACECRAFT

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| US Application | 10/389.990 |
| Filed | 18 March 2003 |
| Applicant | ESA |
| Inventors | W. Ockels, D. Nicolini & S. Jainandunsing |
| Other Applications | France |

PAT 471 DIGITAL SIGNAL POWER MEASUREMENT CIRCUIT

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| European Application | 03 290648.9 |
| Filed | 14 March 2003 |
| US Application | 10/391.869 |
| Filed | 19 March 2003 |
| Applicant | ESA |
| Inventors | M. Martin Neira, P. Piironen & A. Camps |
| Other Applications | France |

PAT 472 DEVICE FOR TEMPORARILY LOCKING A ROTOR, IN PARTICULAR A MAGNETICALLY SUSPENDED ROTOR OF AN INERTIA WHEEL FOR SPACE APPLICATIONS

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| European Application | 03 290747.9 |
| Filed | 25 March 2003 |
| US Application | 10/400.391 |
| Filed | 28 March 2003 |
| Applicant | ESA |
| Inventors | D. Blonski & R. Seiler |
| Other Application | France |

PAT 474 EXOSKELETON FOR THE HUMAN ARM, IN PARTICULAR FOR SPACE APPLICATIONS

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| European Application | 03 291149.7 |
| Filed | 16 May 2003 |
| US Application | 10/443.111 |
| Filed | 22 May 2003 |
| Applicant | ESA |
| Inventors | A. Schiele & G. Visentin |
| Other Applications | France |

PAT 480 METHOD AND SYSTEM FOR EXTRACTION AND REMOVAL OF WATER VAPOUR FROM AIR ONBOARD A SPACECRAFT

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|--------------------|-------------------------|
| US Application | 10/654,269 |
| Filed | 2 September 2003 |
| Applicant | ESA |
| Inventors | R. Lainé & P. Tamburini |
| Other Applications | France |

PAT 481 MULTI-BEAM SATELLITE COMMUNICATIONS PAYLOAD WITH FLEXIBLE POWER ALLOCATION

US Application 10/429,368
Filed 5 May 2003
Applicant ESA
Inventors F. Coromina & P. Waller

PAT 482 REAL-TIME NAVIGATION METHOD AND SYSTEM USING THREE-CARRIER RADIOFREQUENCY SATELLITE AND IONOSPHERIC CORRECTIONS

International Application PCT/FR03/50176
Filed 16 December 2003
Applicant ESA
Inventors M. Hernández-Pajares, J.M. Juan-Zornoza, J. Sanz-Subirana & A. Garcia-Rodriguez
Other Applications France

PAT 485 A ROUTING METHOD AND APPARATUS FOR A DIGITAL MULTIPLEX SYSTEM

US Application 10/706,728
Filed 12 November 2003
Applicant ESA
Inventors O. del Rio Herrero & X. Maufroid
Other Applications France

PAT 486 ELECTRONIC DEVICES COMPRISING MICRO-ELECTROMECHANICAL ADJUSTABLE CAPACITANCES

French Application 03 01934
File 18 February 2003
Applicant ESA
Inventors F. Petz & M. Wittig

PAT 489 MINIATURISED OPTICAL HIGH-RESOLUTION SPECTROMETER

French Application 03 08688
Filed 16 July 2003
Applicant ESA
Inventor B. Harnisch

PAT 491 ARCHITECTURE FOR AN ITERATIVE DECODER

French Application 03 10261
Filed 28 August 2003
Applicant ESA
Inventors A. Martinez & M. Rovini

**PAT 492 PROCESS FOR PROVIDING A PHASE SYNCHRONIZATION OF
A PILOT-AIDED CARRIER**

European Application 03 077809.6 and 03 077810.4
Filing date 5 September 2003
Applicant ESA
Inventors A. Ginesi, D. Fittipaldi, A. Bigi & R. De Gaudenzi

PAT 493 SUB-MILLIMETRE WAVELENGTH CAMERA

International Application PCT/EP 03/13342
Filed 27 October 2003
Applicant ESA
Inventors D.C. Castiglione, L. Deias, I. Ederra-Urzainqui, D.B. Haskett, D. Jenkins, A.V.S.B. Laisné,
A.J. McCalden, J.P. O'Neill, J. Teniente-Vallinas, F. Van De Water, A.A. Zinn,
P. De Maagt & C. Mann
Other Applications United Kingdom

PAT 494 TUNABLE PHASE SHIFTER AND/OR ATTENUATOR

International Application PCT/EP 03/13336
Filed 24 October 2003
Applicant ESA
Inventors D.C. Castiglione, L. Deias, I. Ederra-Urzainqui, D.B. Haskett, D. Jenkins, A.V.S.B. Laisné,
A.J. McCalden, J.P. O'Neill, J. Teniente-Vallinas, F. Van De Water, A. A. Zinn,
P. De Maagt & C. Mann
Other Applications United Kingdom

**PAT 496 FRONT-END ARCHITECTURE FOR MULTI-BEAM FOCAL ARRAY FED REFLECTOR
ANTENNAS WITH FAILURE COMPENSATION**

French Application 03 11626
Filed 3 October 2003
Applicant ESA
Inventor F. Coromina