

# Patents

## **PAT 442** METHOD AND COMMAND SYSTEM FOR CONTROLLING OR STABILISING THE ORIENTATION OF A SPACECRAFT

US Application 10/084,270  
Filed 27 February 2002  
Applicant ESA  
Inventors F. Vandebussche, A. van Overbeek, M. Janvier & A. Holt  
Other Applications France

## **PAT 452** ELECTRIC POWER SUPPLY CONVERTER

US Application 10/125,487  
Filed 19 April 2002  
Applicant ESA  
Inventor P. Pérol  
Other Applications France

## **PAT 463** METHOD OF DETERMINING THE POSITION OF A BEACON TRANSMITTER

US Application 10/125,510  
Filed 19 April 2002  
Applicant ESA  
Inventors B. Peeters, G. Gatti, J. Hahn & I. Stojkovic  
Other Applications France

## **PAT 465** DEVICE FOR PROTECTING A VOLTAGE SOURCE AND A LOAD FED BY THE SOURCE

European Application 02 292261.3  
Filed 16 September 2002  
Applicant ESA  
Inventors G. Simonelli & P. Pérol  
Other Applications France, United States

## **PAT 466** COMBINED PROPULSION SYSTEM FOR A SPACECRAFT

French Application 02 04336  
Filed 8 April 2002  
Applicant ESA  
Inventors W. Ockels, D. Nicolini & S. Jainandunsing



**PAT 475** FOLDABLE AND UNFOLDABLE ANTENNA REFLECTOR FOR A  
LARGE ANTENNA APPLICABLE TO SPACE TELECOMMUNICATIONS

French Application 02 12516  
Filed 9 October 2002  
Applicant ESA  
Inventors F. Petz, D. Campbell & G. Toso

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

French Application 02 10882  
Filed 3 September 2002  
Applicant ESA  
Inventors R. Lainé & P. Tamburini

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

French Application 02 16227  
Filed 19 December 2002  
Applicant ESA  
Inventors M. Hernández-Pajares, J.M. Juan-Zornoza, J. Sanz-Subirana &  
A. Garcia-Rodriguez

**PAT 485** ROUTING METHOD AND DEVICE FOR A DIGITAL MULTIPLEX  
SYSTEM

French Application 02 14637  
Filed 22 November 2002  
Applicant ESA  
Inventors O. del Rio Herrero & X. Maufroid