

A solid target for radionuclides production

Priority date Sep 14, 2017	Application # 102017000102990
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Inventor(s)	Owner(s)
Vincenzo Palmieri et al.	INFN

Title: METHOD FOR MANUFACTURING A SOLID TARGET FOR PRODUCING RADIOPHARMACEUTICALS
<p>A method for radionuclide production starting from specific solid target and making use of cyclotron apparatus.</p> <p>The solid target being obtained through magnetron sputtering technique.</p> <p>The presente invention allows to obtain high purity radionuclides as starting material for radiopharmaceutical production.</p>
Field of application: Radiopharmaceutical production

A truly-random number generator

Priority date July 27, 2017	Application # 102017000086031
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Inventor(s)	Owner(s)
Pasquale Migliozzi et al.	INFN

Title: SYSTEM, APPARATUS AND METHOD FOR GENERATING RANDOM NUMBERS
<p>Since the invention does not use algorithms to generate random numbers and it does not need to be connected to the internet in order to operate, it allows to prevent computer attacks.</p> <p>Moreover, since the device which implements the invention is cheap and small, it can be housed in any office that needs to generate random numbers to encrypt information to be transmitted via the internet.</p>
Field of application: Random number generators

In-vivo dose monitoring for hadrontherapy

Priority date July 31, 2017	Application # 102017000087851
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Inventor(s)	Owner(s)
G.A.P. Cirrone et al.	INFN

Title: Method for the measurement of radiotherapy doses
A method for the measurement of radiotherapy doses, in particular on a patient or an organic subject undergoing a radiation therapy treatment, that requires neither voltage applied to the subject nor radiation from a signal collection sensor, and is capable of providing an absolute measurement.
Field of application: Radiotherapy; Hadrontherapy



Subdiffractive microscopy

Priority date Dec 30, 2016	Application # 102016000132813
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Inventor(s)	Owner(s)
Giovanni De Lellis et al.	INFN

Title: METHOD AND APPARATUS FOR DETECTING PARTICLES OF SUBDIFFRACTIVE DIMENSIONS
<p>The present invention allows to reach the resolution of 10nm, never achieved before with an elementary particle detector.</p> <p>In particular, it enables to achieve said spacial resolution with an extremely fast and fully automated reading system: it analyzes surfaces of about 25 mm² in an hour.</p>
Field of application: Optical microscopy



Previous issues:

<i>Advertisement published from 27/02/2017 to 14/09/2017</i>	
High-efficiency nanodiamond-based ultraviolet	
Priority date April 30, 2014	Application # 102015000053374
	Int'l Appl # PCT/IB2016/055616
Inventor(s)	Owner(s)
Antonio Valentini et al.	INFN

<i>Advertisement published from 27/02/2017 to 14/09/2017</i>	
Method and apparatus for detecting intrinsic radioactivity of radioactive samples	
Priority date July 31, 2015	Application # 1020155000041070
	Int'l Appl # PCT/IB2016/054549
Inventor(s)	Owner(s)
Ezio Previtali et al.	INFN

<i>Advertisement published from 26/01/2017 to 27/02/2017</i>	
Improved design for UFSD	
Priority date Sept 14, 2016	Application # 102016000092430
Inventor(s)	Owner(s)
Nicolo' Cartiglia et al.	INFN

<i>Advertisement published from 26/01/2017 to 27/02/2017</i>	
A system for dose monitoring in hadron therapy	
Priority date June 10, 2014	Application # TO2014A000464
	Int'l Appl # EP 15734458.1 US15/316855
Inventor(s)	Owner(s)
Nicolo' Cartiglia et al.	INFN

<i>Advertisement published from 26/01/2017 to 27/02/2017</i>	
A magnetron sputtering system suitable for QWR cavities	



Priority date Feb 27, 2015	Application # VI2015A000060
	Int'l Appl # PCT/IB2016/051073
Inventor(s)	Owner(s)
Vincenzo Palmieri et al.	INFN

<i>Advertisement published from 26/01/2017 to 27/02/2017</i>	
An improved positron imaging unit	
Priority date April 30, 2014	Application # MI2014A000805
	Int'l Appl # EP 14828536.4 US 15/308,070
Inventor(s)	Owner(s)
Cristiano Galbiati	INFN

<i>Advertisement published from 26/01/2017 to 27/02/2017</i>	
Method for classifying brain images	
Priority date Ago 01, 2014	Application # MI2014A001418
Inventor(s)	Owner(s)
Andrea Chincarini	INFN

<i>Advertisement published from 26/01/2017 to 27/02/2017</i>	
High efficiency heat exchanger	
Priority date April 30, 2014	Application # MI2014A000805
	Int'l Appl # EP 14828536.4 US 15/308,070
Inventor(s)	Owner(s)
Pierfrancesco Mastinu et al.	INFN

<i>Advertisement published from 26/01/2017 to 27/02/2017</i>	
NIC for a computing node of a parallel computer accelerated by GPGPU	
Priority date March 14, 2012	Application # RM2012A000094
	Int'l Appl # US2015039793
Inventor(s)	Owner(s)



Davide Rossetti	INFN
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<i>Advertisement published from 01/12/2016 to 25/01/2017</i>	
A metal gasket for ultra high vacuum sealing	
Priority date March 16, 2015	Application # 102015000008811
	Int'l Appl # WO 2016/147118
Inventor(s)	Owner(s)
Alesini David et al.	INFN

<i>Advertisement published from 25/10/2016 to 01/12/2016</i>	
A new X-ray concentrator	
Priority date Sept 28, 2016	Application # 102016000096983
Inventor(s)	Owner(s)
Bellucci Valerio et al.	INFN

<i>Advertisement published from 09/09/2016 to 10/10/2016</i>	
Digitally Controlled Oscillator (DCO) Architecture	
Priority date Nov 3, 2014	Application # IT102016000077445
Inventor(s)	Owner(s)
Stabile Alberto et al.	INFN

<i>Advertisement published from 09/09/2016 to 10/10/2016</i>	
Low power consumption content addressable memory (CAM)	
Priority date July 08, 2016	Application # IT102016000071637
Inventor(s)	Owner(s)
Ammendola Roberto et al.	INFN

<i>Advertisement published from 09/09/2016 to 10/10/2016</i>	
System to speed up data transmission in interconnection networks	
Priority date Nov 3, 2014	Application # IT RM2014A000634
	Int'l Application # WO2016071813
Inventor(s)	Owner(s)



Giordano Raffaele et al.	INFN
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<i>Advertisement published from 04/02/2016 to 22/03/2016</i>	
A new gamma detector configuration	
Priority date May 7, 2013	Int'l Publication # WO2013EP01360
Inventor(s)	Owner(s)
Williams Crispin	INFN, CERN

<i>Advertisement published from 15/12/2015 to 18/01/2016</i>	
Device and method for detecting neutrons and gamma rays	
Priority date Nov 11, 2013	Application # MI2013A001862
	Int'l Publication # PCT/IB2014/065876
Inventor(s)	Owner(s)
De Vita Raffaella, Ambi Francesca, Firpo Gabriele	INFN, Ansaldo Nucleare

<i>Advertisement published from 15/12/2015 to 18/01/2016</i>	
Method for producing beta emitting radiopharmaceuticals, and beta emitting radiopharmaceuticals thus obtained	
Priority date Jan 31, 2014	Application # MI2014A000145
	Int'l Publication # PCT/IB2014/067093
Inventor(s)	Owner(s)
Andrighetto Alberto	INFN

<i>Advertisement published from 15/12/2015 to 18/01/2016</i>	
A ionizing radiation beam detector	
Priority date Nov 12, 2014	Application # TO2014A000943
	Int'l Publication# PCT/IB2014/067093
Inventor(s)	Owner(s)
Alessandro Montanari, Mauro Iori, Giuseppe Felici	INFN, AZIENDA OSP. ARCISPEDALE S. MARIA NUOVA, SIT spa

<i>Advertisement published from 13/11/2015 to 14/12/2015</i>	
Innovative echo-scintigraphic probe	



Priority date May 16, 2014	Application # RM2014A000245
	Int'l Application# PCT/IT2015/000130
Inventor(s)	Owner(s)
Pani Roberto Orsolini-Cencelli Valentino Fabbri Andrea	INFN, Università degli Studi di Roma "La Sapienza"

<i>Advertisement published from 13/11/2015 to 14/12/2015</i>	
Ultra-fast laser pulse characterization	
Priority date July 5, 2013	Italian patent # 0001418869
	Int'l Publication # WO2015001432
Inventor(s)	Owner(s)
Braggio Caterina	INFN, Università di Padova

<i>Advertisement published from 13/11/2015 to 14/12/2015</i>	
A superconducting resonators with very high Q-value	
Priority date September 11, 2013	Application # MI2013A001508
	Int'l Publication # WO2015036931
Inventor(s)	Owner(s)
V. Palmieri, R. Vaglio, S. Stark, F. Stivanello, M. Checchin, M. Martinello	INFN, CNR(*) (*) only Italian patent application

<i>Advertisement published from 12/10/2015 to 13/11/2015</i>	
Detector based on scintillating optical fibers for charged particles tracking with application in the realization of residual range detector employing a read-out channels reduction and compression method	
Priority date Jun 12, 2012	Application # RM2012A000273
	Int'l Publication # EP 13745732.1
Inventor(s)	Owner(s)
Domenico Lo Presti	INFN

<i>Advertisement published from 12/10/2015 to 13/11/2015</i>	
Particle beam monitoring device and use thereof	
Priority date May 07, 2015	Application # RM2015A000198





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