



Virtual patent marking

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PROTON THERAPY

Proteus®ONE:

Component category	Component name	US Patent No.
Room Infrastructure	Open Gantry Structure	8748852, 8766218, 9302123
	Gantry Rolling Floor for Open Gantry	9901752
	Eye Treatment gantry	10195461
Beam Production & Transport System	Superconducting Synchrocyclotron (S2C2)	9451688, 9355784, 9271385, 9351391, 9237640, 9237642, 10070510
	Energy Selection and Beam Transport System	9289624, 10052498, 10799714
	PBS nozzle	8541762
Beam Delivery System	Fast volumetric repainting	8916838
	Dedicated Nozzle Snout (optional)	9789343
	Universal Beam Triggering Interface (optional)	8801588
	Arc	1104566
Image Guided Proton Therapy (IGPT) equipment	Isocentric Cone Beam CT (optional)	10124191
Clinical and System Operation	Wireless Hand Pendant	10304322

Proteus®PLUS:

Component category	Component name	US Patent No.
Room Infrastructure	Gantry rolling floor for full gantry	8368043
Beam Production & Transport System	Fixed Energy Isochronous Cyclotron C230	8410730, 8896238
Beam Delivery System	PBS nozzle	8541762
	Fast volumetric repainting	8916838
	Dedicated Nozzle Snout (optional)	9789343
	Universal Beam Triggering Interface (optional)	8801588
Clinical and System Operation	Wireless Hand Pendant	10304322
	Room switching	8729508

RADIOPHARMA SOLUTIONS

Component category	Component name	US Patent No.
Cyclone	Cyclone® 30	8823291, 9055662
	Cyclone® Kiube, Ikon, Key	8324841, 10064264, 9961757, 10278277, 9907153, 10806019
	Zephiros® control system	9941027
Chemistry	Synthera®+ synthesizer	8287819, 7235216
	IFP™ (Integrated Fluidic Processor)	8287819, 7235216
	Synthera®+ loader	10919019
	Synthera® extension	10600528
Target	Nirta® target	7940881, 8288736
	Nirta® conical target	9922743
	Soltaris®	11250964

INDUSTRIAL

Component category	Component name	US Patent No.
Rhodotron®	Radio frequency system	8598790, 9775228
	Magnets	10271418, 10743401
	Accelerating cavity	10249400
Industrial processes	Beam line and scanning horn	9818573
	Sterilization	7486771, 11724845, 17726797

DOSIMETRY

Component category	Component name	US Patent No.
Radiation therapy	Risk management	18/160372, 18/518923
	Ionization chamber array	7476867, 9960203
	Radiation beam / field QA	8338783, 10058715, 10737119
	Treatment beam delivery / treatment plan QA	8160204, 8218725
Proton therapy	Water phantom	8502133
	PBS phantom	10105119, 11554273
	Ionization chamber array	7476867, 9960203
	MLIC	8779375
	Treatment beam delivery / treatment plan QA	8160204, 8218725, 8716663, 9199093