

**EXHIBIT 2031: Energetiq’s Laser-Driven Light Source Products and U.S. Pat. Nos. 8,969,**

<b>Energetiq’s Laser-Driven Light Source Products and U.S. Patent No. 8,969,</b>		
<b>Claim</b>	<b>Claim Element</b>	<b>Comments</b>
1.	A laser driven light source comprising:	Energetiq’s EQ-1000, EQ-9, EQ-77, EQ-1500, EQ-99, EQ-99X, EQ-99-FC, EQ-99X-FC, and EQ-400 laser-driven light source products (collectively “Energetiq’s laser-driven light source products”) are laser driven light sources. (Smith Decl. at ¶ 68 (Ex. 2054); Energetiq Laser-Driven Light Sources at 3, 9 (Ex. 2055)).
	a sealed pressurized chamber having a gas at a pressure greater than 10 atmospheres during operation;	Energetiq’s laser-driven light source products each include a sealed pressurized chamber having a gas at a pressure greater than 10 atmospheres during operation. (Smith Decl. at ¶ 69 (Ex. 2054); Energetiq Laser-Driven Light Sources at 3, 9 (Ex. 2055)).
	an ignition source for ionizing the gas within the chamber, and	Energetiq’s laser-driven light source products each include an ignition source that serves to ionize the gas within the chamber. (EQ-1000 LDLS Manual at 19 (Ex. 2054); EQ-9 LDLS Manual at 12, 13 (Ex. 2055); EQ-77 LDLS Manual at 13, 23 (Ex. 2056); EQ-1500 LDLS Manual at 7, 27 (Ex. 2055); EQ-90-FC LDLS Manual at 14, 25 (Ex. 2058); EQ-99X LDLS Manual at 13, 24 (Ex. 2058); EQ-99-FC LDLS Manual at 13, 24 (Ex. 2059); EQ-99-FC LDLS Manual at 13, 24 (Ex. 2060); EQ-99-FC LDLS Manual at 14, 24 (Ex. 2061); EQ-400 LDLS Light Source at 12 (Ex. 2063)).
	an at least substantially continuous laser for providing energy within a wavelength range from about 700 nm to 2000 nm to the ionized gas to	Energetiq’s laser-driven light source products each use a continuous wave laser to provide substantially continuous laser energy within a wavelength of between 970-980 nm, except the EQ-400 LDLS Light Source at 12 (Ex. 2063) (“975 nm,” “CW”); EQ-77 LDLS Manual at 3 (Ex. 2062) (“974 nm,” “CW”); EQ-77 LDLS Manual at 3 (Ex. 2062) (“974 nm,” “CW”); EQ-77 LDLS Manual at 3 (Ex. 2062) (“974 nm,” “CW”).

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Claim	Claim Element	Comments
	<p>sustain a plasma within the chamber to produce a plasma-generated light having wavelengths greater than 50 nm,</p>	<p>2056) (“974 nm,” “CW”); EQ-1500 Manual at 4 (Ex. “CW”); EQ-90-FC Manual at 4 (Ex. 2057) (“974 nm Manual at 4 (Ex. 2058) (“974 nm,” “CW”); EQ-99X 2059) (“974 nm,” “CW”); EQ-99-FC Manual at 4 (E nm,” “CW”); EQ-99X-FC Manual at 4 (Ex. 2061) (“ Laser-Driven Light Sources at 3 (Ex. 2064); Smith D 2016).)</p> <p>The continuous wave laser beam sustains a plasma w producing plasma-generated light that includes wave than 50 nm (<i>e.g.</i>, in the UV and visible bands). (EQ- Manual at 2 (Ex. 2054) (“The EQ-1000 uses a patent system to excite a plasma that radiates in the UV as v bands.”); EQ-9 LDLS Manual at 3 (Ex. 2062) (“The patented . . . laser drive system to excite a plasma tha UV as well as the visible bands.”); EQ-77 LDLS Mar 2056) (“The EQ-77 uses a patented* laser drive syste plasma that radiates in the UV as well as the visible b LDLS Manual at 4 (Ex. 2055) (“The EQ-1500 uses a drive system to excite a plasma that radiates in the U visible bands.”); EQ-90-FC LDLS Manual at 3 (Ex. 2 90-FC uses a patented . . . laser drive system to excite radiates in the UV as well as the visible bands.”); EQ at 4 (Ex. 2058) (“The EQ-99 uses a patented . . . lase excite a plasma that radiates in the UV as well as the</p>

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	<p>the chamber further comprising a region of material that is transparent to at least a portion of the plasma-generated light and that allows said portion of the plasma-generated light to exit the chamber.</p>	<p>EQ-99X LDLS Manual at 3 (Ex. 2059) (“The EQ-99 . . . laser drive system to excite a plasma that radiates in the visible bands.”); EQ-99-FC LDLS Manual at 3 (Ex. 2060) (“EQ-99-FC uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-99X-FC LDLS Manual at 3 (Ex. 2061) (“The EQ-99X-FC uses a patented laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-400 LDLS Laser-Driven Light Source Manual at 3 (Ex. 2063) (“Broadest Spectrum: 170 nm-2100 nm”); Smith Decl. at ¶ 70 (Ex. 2016); Energetiq Laser-Driven Light Sources at 3, 9 (Ex. 2064).)</p>

**Energetiq's Laser-Driven Light Source Products and U.S. Patent No. 9,048,**

Claim	Claim Element	Comments
1.	A method for illuminating features of a semiconductor wafer, comprising:	Energetiq's EQ-1000, EQ-9, EQ-77, EQ-1500, EQ-999X, EQ-99-FC, EQ-99X-FC, and EQ-400 laser-driven products (collectively "Energetiq's laser-driven light source products") which use a plasma to produce light, provide a method for illuminating the features of a semiconductor wafer. (Smith Decl. 1-2; Energetiq Laser-Driven Light Sources at 3, 9 (Ex. 2005).)
	ionizing a gas within a sealed pressurized plasma chamber having an operating pressure of at least 10 atmospheres;	Energetiq's laser-driven light source products each include a sealed pressurized plasma chamber that serves to ionize a gas within a sealed pressurized plasma chamber (EQ-1000 LDLS Manual at 19 (Ex. 2054); EQ-9 LDLS Manual at 22 (Ex. 2062); EQ-77 LDLS Manual at 13, 23 (Ex. 2055); EQ-1500 LDLS Manual at 7, 27 (Ex. 2055); EQ-90-FC LDLS Manual at 13, 24 (Ex. 2057); EQ-99 LDLS Manual at 13, 24 (Ex. 2058); EQ-99-FC LDLS Manual at 13, 24 (Ex. 2059); EQ-99-FC LDLS Manual at 14, 24 (Ex. 2060); EQ-99X-FC LDLS Manual at 14, 24 (Ex. 2060); Energetiq Laser-Driven Light Source at 12 (Ex. 2063). The operating pressure of the sealed pressurized plasma chamber of each of Energetiq's laser-driven light source products is at least 10 atmospheres during operation. (Smith Decl. 1-2; Energetiq Laser-Driven Light Sources at 3, 9 (Ex. 2005).)
	providing substantially continuous laser energy having a wavelength range of up to about 2000 nm through a region of material in the sealed pressurized chamber that is transparent to the	Energetiq's laser-driven light source products each use a laser to provide substantially continuous laser energy having a wavelength of between 970-980 nm, except the EQ-400 laser-driven light source product which has a wavelength of 1070 nm, to the ionized gas through a region of the material in the sealed pressurized chamber that is transparent to the laser energy. (EQ-1000 Manual at 3 (Ex. 2054); EQ-9 Manual at 3 (Ex. 2062) ("974 nm," "CW"); EQ-99 Manual at 3 (Ex. 2058) ("974 nm," "CW"); EQ-77 Manual at 3 (Ex. 2055) ("974 nm," "CW"); EQ-1500 Manual at 3 (Ex. 2055) ("974 nm," "CW"); EQ-90-FC Manual at 3 (Ex. 2057) ("974 nm," "CW"); EQ-99 Manual at 3 (Ex. 2058) ("974 nm," "CW"); EQ-99-FC Manual at 3 (Ex. 2059) ("974 nm," "CW"); EQ-99X-FC Manual at 3 (Ex. 2060) ("974 nm," "CW"); Energetiq Laser-Driven Light Source at 12 (Ex. 2063) ("974 nm," "CW").)

**Energetiq’s Laser-Driven Light Source Products and U.S. Patent No. 9,048,**

Claim	Claim Element	Comments
	substantially continuous laser energy	Manual at 3 (Ex. 2056) (“974 nm,” “CW”); EQ-1500 (Ex. 2055) (“975 nm,” “CW”); EQ-90-FC Manual at 4 (Ex. 2057) (“974 nm,” “CW”); EQ-99 Manual at 4 (Ex. 2058) (“974 nm,” “CW”); EQ-99X Manual at 4 (Ex. 2059) (“974 nm,” “CW”); EQ-99X-FC Manual at 4 (Ex. 2060) (“974 nm,” “CW”); Laser-Driven Light Sources at 3 (Ex. 2016). Decl. at ¶ 70 (Ex. 2016).)
	to the ionized gas to sustain a plasma within the sealed pressurized plasma chamber to produce plasma-generated light having wavelengths greater than 50 nm; and	The continuous wave laser energy of each of Energetiq’s laser-driven light source products is provided to the ionized gas to sustain a plasma within the pressurized plasma chamber to produce plasma-generated light having wavelengths greater than 50 nm (e.g., in the UV bands). (EQ-1000 LDLS Manual at 2 (Ex. 2054) (“The EQ-1000 uses a patented laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-9 LDLS Manual at 3 (Ex. 2055) (“The EQ-9 uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-9-N uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-77 LDLS Manual at 3 (Ex. 2056) (“The EQ-77 uses a patented* laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-1500 LDLS Manual at 4 (Ex. 2055) (“The EQ-1500 uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-90-FC LDLS Manual at 4 (Ex. 2057) (“The EQ-90-FC uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-99 LDLS Manual at 4 (Ex. 2058) (“The EQ-99 uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-99X LDLS Manual at 4 (Ex. 2059) (“The EQ-99X uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); EQ-99X-FC LDLS Manual at 4 (Ex. 2060) (“The EQ-99X-FC uses a patented . . . laser drive system to excite a plasma that radiates in the UV as well as the visible bands.”); Laser-Driven Light Sources at 3 (Ex. 2016). Decl. at ¶ 70 (Ex. 2016).)

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