

Exhibit 2034: Infringement Claim Charts for U.S. Patent Nos. 8,969,841 and 9


Infringement Claim Chart U.S. Patent No. 8,969,841 – ASML YieldStar-Qioptiq Laser-Dr		
Claim	Claim Element	Comments
1.	A laser driven light source comprising:	<p>Representative infringing products from Petitioners include the YieldStar system and other products that incorporate sub-structures containing a laser-driven light source or Qioptiq’s laser- (“Qioptiq LS1”). On information and belief, ASML’s YieldStar S-250D and YieldStar T-250D (“YieldStar 250”) include a laser-driven light source.</p> <div style="text-align: center;">  <p>YieldStar S-250D</p> </div> <p>The YieldStar 250 is a tool used in the semiconductor manufacturing process. On information and belief, YieldStar 250 systems incorporate Qioptiq laser-driven light sources to enable “very precise overlay and focus measurements per field needed to calculate corrections to be applied on the scanners.” (See YieldStar S-250D Brochure (Jan. 20, 2014) (Ex. 2052); YieldStar S-250D Brochure (Jan. 20, 2014) (Ex. 2053).)</p>

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		<p>On information and belief, RnD-ISAN developed a laser source for Qioptiq that was eventually incorporated into use in the ASML YieldStar system. (RnD-ISAN LLC, ‘Plasma Broadband Light Source’ at 6 (“RnD-ISAN”) (E ASML's Customer Magazine, 2014 at 18 (Ex. 2005) (“[lamp used in the YieldStar 200C has been replaced with delivers substantially more light and improved illuminat characteristics.”).)</p> <div data-bbox="829 1234 1624 1423" data-label="Image"> </div> <p>(RnD-ISAN at 6 (Ex. 2039) (incorporation of light sou and YieldStar system).)</p> <p>The Qioptiq LS1 is a laser-driven light source. (RnD-IS (Ex. 2039) (“Laser Pumped Plasma Broadband Light So</p>

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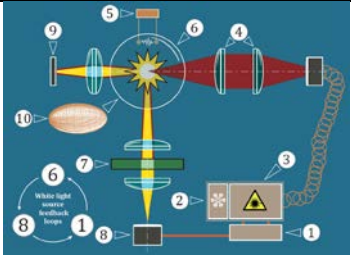
Infringement Claim Chart U.S. Patent No. 8,969,841 – ASML YieldStar-Qioptiq Laser-Dr		
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		 <p>(RnD-ISAN at 2 (Ex. 2039) (“Schematic of a laser p broadband light source”).)</p>
	a sealed pressurized chamber having a gas at a pressure greater than 10 atmospheres during operation;	The Qioptiq LS1 includes a sealed chamber containing g pressurized to greater than 10 atmospheres during operat at 2 (Ex. 2039), element #6 (“Xe high pressure lamp”); 1 medium is Xenon at high (~20 atm) pressure.”.)
	an ignition source for ionizing the gas within the chamber; and	The Qioptiq LS1 includes an RF ignition source for ioni the chamber. (RnD-ISAN at 2 (Ex. 2039), element #5 (“ unit”).)
	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 sustain a plasma within the chamber to produce a	The Qioptiq LS1 includes a continuous wave laser that p substantially continuous energy at 980 nm, within the ra nm, to sustain a plasma within the chamber. (RnD-ISAN element #3 (“Diode laser with optical fiber output (980n (“Continuous wave laser beam is focused onto initial ga volume sufficient to maintain plasma state.”).)
		The sustained plasma produces plasma-generated light h

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	plasma-generated light having wavelengths greater than 50 nm,	greater than 50 nm. (RnD-ISAN at 3 (Ex. 2039) (“Laser broadband light source XWS emits light in 200-800nm range with spectral brightness.”).)
	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.	The chamber of the Qioptiq LS1 includes a region of material transparent to a portion of the plasma-generated light and allows plasma-generated light to exit the chamber. (RnD-ISAN at 3 (Ex. 2039), element #6 (“Xe high-pressure lamp,” depicting light emitted from the lamp); 4 (depicting light emitted from the lamp).)
2.	The laser driven light source of claim 1, comprising	As discussed in detail above, representative infringing products of Petitioners meet all of the limitations of claim 1.
	at least one optical element for modifying a property of the laser energy provided to the ionized gas.	The Qioptiq LS1 includes a laser light filter optical element for modifying a property of the laser energy provided to the ionized gas. The Qioptiq LS1 also includes focusing optics that modify a property of the laser energy provided to the ionized gas. (RnD-ISAN at 2 (Ex. 2039), element #3 (“Laser light filter”); element #4 (“Focusing optics” also depicted in path of laser).)
3.	The laser driven light source of claim 2 wherein	As discussed in detail above, representative infringing products of Petitioners meet all of the limitations of claim 2.
	the optical element is a lens or mirror focusing the laser energy into a region	The Qioptiq LS1 includes focusing optics that focus the laser energy into a region of the ionized gas. (RnD-ISAN at 2 (Ex. 2039), element #3 (“Focusing optics,” also depicted in path of laser); 1 (“C

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	of the ionized gas.	laser beam is focused onto initial gas breakdown volume maintain plasma state.”.)
7.	The laser driven light source of claim 1 wherein	As discussed in detail above, representative infringing p Petitioners meet all of the limitations of claim 1.
	the ignition source is selected from the group consisting of electrodes, an ultraviolet ignition source, a capacitive ignition source, an inductive ignition source, a flash lamp, a pulsed laser, and a pulsed lamp.	The Qioptiq LS1 includes an RF ignition source for ioni the chamber. (RnD-ISAN at 2 (Ex. 2039), element #5 (“unit”).)

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