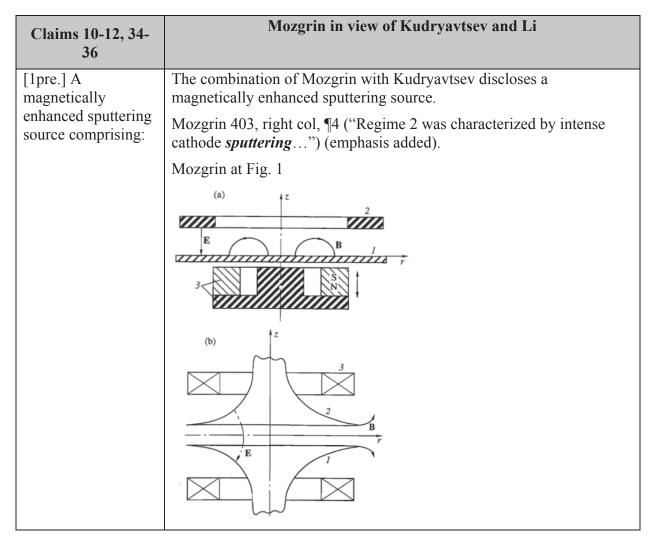
Ex. A.02.PDFReferences cited herein:

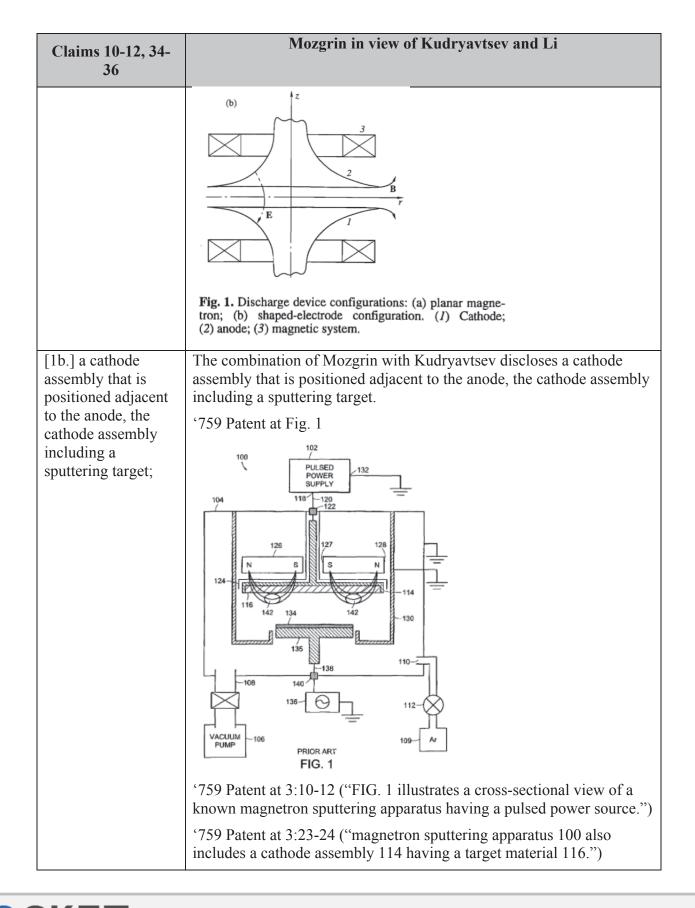
- U.S. Patent No. 7,147,759 ("'759 Patent")
- D.V. Mozgrin, et al, <u>High-Current Low-Pressure Quasi-Stationary Discharge in a</u> <u>Magnetic Field: Experimental Research</u>, Plasma Physics Reports, Vol. 21, No. 5, 1995 ("Mozgrin")
- A. A. Kudryavtsev, *et al*, <u>Ionization relaxation in a plasma produced by a pulsed inert-gas</u> <u>discharge</u>, Sov. Phys. Tech. Phys. 28(1), January 1983 ("Kudryavtsev")
- Li et al, <u>Low-temperature magnetron sputter-deposition</u>, <u>hardness</u>, <u>and electrical</u> <u>resistivity of amorphous and crystalline alumina thin films</u>, J. Vac. Sci. Technol. A 18(5), 2000 ("Li")
- U.S. Pat. No. 6,413,382 ("Wang")



## GILLETTE 1027

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Claims 10-12, 34- 36	Mozgrin in view of Kudryavtsev and Li
	<b>Fig. 1.</b> Discharge device configurations: (a) planar magnetron; (b) shaped-electrode configuration. (1) Cathode; (2) anode; (3) magnetic system.
[1a.] an anode;	The combination of Mozgrin with Kudryavtsev discloses an anode.
	'759 Patent at Fig. 1
	<sup>10</sup> <sup>12</sup> <sup>12</sup> <sup>12</sup> <sup>13</sup> <sup>14</sup> <sup>12</sup> <sup>12</sup> <sup>14</sup> <sup>14</sup> <sup>15</sup> <sup>12</sup> <sup>15</sup> <sup>15</sup> <sup>15</sup> <sup>15</sup> <sup>15</sup> <sup>15</sup> <sup>15</sup> <sup>15</sup>



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Claims 10-12, 34- 36	Mozgrin in view of Kudryavtsev and Li
	Mozgrin at 403, right col, ¶ 4 ("Regime 2 was characterized by intense cathode sputtering").
	Mozgrin at 403, right col, $\P$ 4 ("The pulsed deposition rate of the cathode material").
	Mozgrin at Fig. 1
	(a) $z^2$
	(b) $f^{z}$
[1c.] an ionization source that generates a weakly- ionized plasma proximate to the anode and the cathode assembly;	<ul> <li>(2) anode; (3) magnetic system.</li> <li>The combination of Mozgrin with Kudryavtsev discloses an ionization source that generates a weakly-ionized plasma proximate to the anode and the cathode assembly.</li> <li>'759 Patent at 6:30-32 ("The weakly-ionized plasma is also referred to</li> </ul>
	as a pre-ionized plasma.") '759 Patent at claim 32 ("wherein the peak plasma density of the weakly-ionized plasma is less than about 10 <sup>12</sup> cm <sup>-3</sup> ").
	Mozgrin at 401, right col, ¶2 ("For pre-ionization, we used a stationary magnetron discharge; the discharge current ranged up to 300 mA We found out that only the regimes with magnetic field strength not lower than 400 G provided the initial plasma density in the $10^9 - 10^{11}$ cm <sup>-3</sup> range."). (emphasis added).

Claims 10-12, 34- 36	Mozgrin in view of Kudryavtsev and Li
	Mozgrin at 401, left col, ¶ 1 ("The [plasma] discharge had an annular shape and was adjacent to the cathode."). (emphasis added)
	Mozgrin at 402, right col, ¶2 ("Figure 3 shows typical voltage and current oscillograms Part I in the voltage oscillogram represents the voltage of the stationary discharge (pre-ionization stage).").
	Mozgrin at Fig. 6
	<sup>(b) 2</sup> <b>Fig. 6.</b> High-current quasi-stationary discharge regimes. (a) planar magnetron: ( <i>I</i> ) high-current magnetron regime ( <i>A</i> r, $I_d = 70$ A, $U_d = 900$ V); (2) high-current diffuse regime ( $p = 10^{-1}$ torr, Ar, $I_d = 700$ A, $U_d = 80$ V); (3) arc regim Ar, $I_d = 1000$ A, $U_d = 45$ V). (b) Shaped-electrode system: ( <i>I</i> ) high-current diffuse regime ( $p = 10^{-1}$ torr, Ar, $I_d = 1000$ (2) contracted arc regime ( $p = 10^{-1}$ torr, Ar, $I_d = 1500$ A, $U_d = 50$ V).
[1d.] a magnet that is positioned to generate a magnetic field proximate to	The combination of Mozgrin with Kudryavtsev discloses a magnet that is positioned to generate a magnetic field proximate to the weakly- ionized plasma, the magnetic field substantially trapping electrons in the weakly-ionized plasma proximate to the sputtering target.
the weakly-ionized plasma, the magnetic field	'759 Patent at 3:10-12 ("FIG. 1 shows a cross-sectional view of a known magnetron sputtering apparatus 100" that has a magnet 126.")
substantially trapping electrons in the weakly-ionized plasma proximate to	'759 Patent at 4:4-10 [ <i>describing the prior art Fig. 1</i> ] ("The electrons, which cause ionization, are generally confined by the magnetic fields produced by the magnet 126. The magnetic confinement is strongest in a confinement region 142")

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