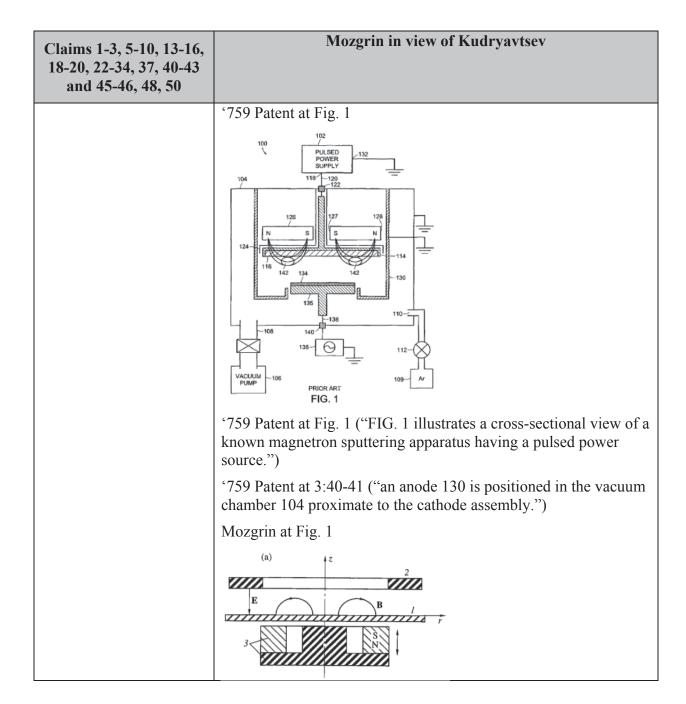
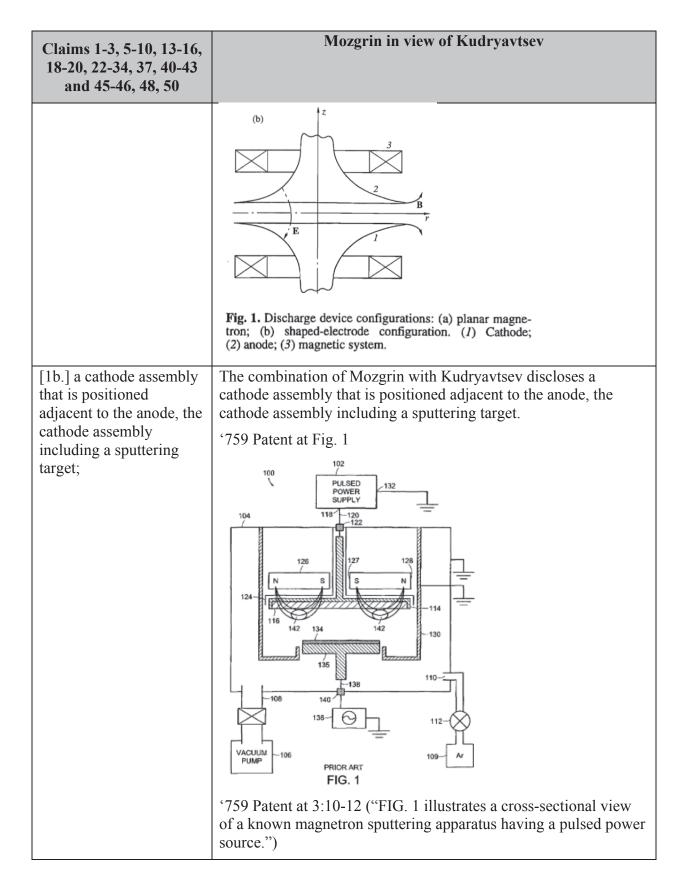
References cited herein:

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- 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")

Claims 1-3, 5-10, 13-16, 18-20, 22-34, 37, 40-43 and 45-46, 48, 50	Mozgrin in view of Kudryavtsev
[1pre.] A magnetically enhanced sputtering source comprising:	The combination of Mozgrin with Kudryavtsev discloses a magnetically enhanced sputtering source.
	Mozgrin 403, right col, ¶4 ("Regime 2 was characterized by intense cathode sputtering")
	Mozgrin at Fig. 1
	(a) z^2 E 3 3 3 3 3 3 3 3
	(b) 2 B r F I
	Fig. 1. 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.





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Claims 1-3, 5-10, 13-16, 18-20, 22-34, 37, 40-43 and 45-46, 48, 50	Mozgrin in view of Kudryavtsev
	'759 Patent at 3:23-24 ("magnetron sputtering apparatus 100 also includes a cathode assembly 114 having a target material 116.")
	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 z z z z z z z
	(b) $\frac{z}{2}$ $\frac{z}{B}$ r
	Fig. 1. Discharge device configurations: (a) planar magnetron; (b) shaped-electrode configuration. (1) Cathode; (2) anode; (3) magnetic system.
[1c.] an ionization source that generates a weakly- ionized plasma proximate to the anode and the cathode assembly;	The combination of Mozgrin with Kudryavtsev discloses an ionization source that generates a weakly-ionized plasma proximate to the anode and the cathode assembly.
	'759 Patent at 6:30-32 ("The weakly-ionized plasma is also referred to 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^{12} cm ⁻³ ").
	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

Claims 1-3, 5-10, 13-16, 18-20, 22-34, 37, 40-43 and 45-46, 48, 50	Mozgrin in view of Kudryavtsev
	field strength not lower than 400 G provided the initial plasma density in the $10^9 - 10^{11}$ cm ⁻³ range."). (emphasis added).
	Mozgrin at 401, left col, $\P 1$ ("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
	(J) (J)
	(b) 2 Fig. 6. High-current quasi-stationary discharge regimes. (a) planar magnetron: (<i>I</i>) high-current magnetron regime ($p = 5 \times 10^{-3}$ Ar, $I_d = 70$ 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 regime ($p = 10^{-1}$
	Ar, $I_d = 1000$ A, $U_d = 45$ V). (b) Shaped-electrode system: (1) high-current diffuse regime ($p = 10^{-1}$ torr, Ar, $I_d = 1000$ A, $U_d = 90$ (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 weakly-ionized plasma, the magnetic	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.
field substantially	'759 Patent at 3:10-12 ("FIG. 1 shows a cross-sectional view of a

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