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ClearSign Files 100th Patent Application

SEATTLE, WA -- (Marketwired) -- 04/23/13 -- ClearSign Combustion Corporation (NASDAQ: CLIR), an emerging leader in combustion and emissions control technology for industrial, commercial and utility markets, announced today that it recently filed its 100th patent application covering utility of its Electrodynamic Combustion Control™ (ECC™) technology.

"Protecting our intellectual property is a priority and a key part of our strategy for bringing our technology to market, and I'm very pleased to recognize this important milestone," said ClearSign CEO Rick Rutkowski. "We are developing a body of proprietary art that we believe can fundamentally advance the design of burners and combustion systems, making them more energy efficient while, at the same time, significantly improving both environmental performance and operating economics. We believe that our work in the field of Electrodynamic Combustion Control technology is pioneering, and that the extraordinary achievements and innovativeness of our technical team are reflected in a truly robust IP portfolio. Our goal is to create a proprietary position that may endow ClearSign and its partners with a sustainable advantage in several high-value segments of the commercial and industrial combustion market."

The company believes that the patents filed may represent substantially more than 100 individual inventions. ClearSign currently has over 50 additional inventions in process for additional patent filings, and will continue to aggressively innovate and protect its most valuable innovations.

Electrodynamic Combustion Control™ technology works by applying a computer-controlled, high-voltage electrical charge to a flame in order to achieve improved control of flame shape, flame stability, flame chemistry and heat transfer in combustion systems. This same technique can also be used to optimize the complex chemical reactions that occur during combustion in order to minimize harmful emissions while maximizing system efficiency. Recently, ClearSign [demonstrated an 85% reduction](#) in NOx emissions (from 50ppm down to 8ppm) using a ECC-enabled prototype burner based on its novel [Duplex™ burner](#) architecture.

ClearSign CTO Joe Colannino said, "In my career as a combustion engineer and in research and development, I have never seen the kinds of effects we are observing at ClearSign. Simultaneous reductions in flame length, NOx, and CO together with enhanced stability are unique, and as far as I know, can only be simultaneously enabled with ECC technology. We also have greater control over flame placement, and control over flame luminosity, along with enhanced heat transfer. Incremental improvements in any one of

these effects would be noteworthy, but to have several simultaneously is simply remarkable.

"Completion of this milestone has been one of our top priorities, and I can report that this accomplishment is unique in the industrial combustion space and certainly without equal in my 25-year tenure. The key to this success is the absolute novelty of our technology, which has enabled us to achieve in less than two years what other mature combustion companies have failed to do even after several decades."

About ClearSign Combustion Corporation

ClearSign Combustion Corporation designs and develops technologies that aim to improve key performance characteristics of combustion systems including energy efficiency, emissions control, fuel flexibility and overall cost effectiveness. Our Electrodynamic Combustion Control™ (ECC™) platform technology improves control of flame shape and heat transfer and optimizes the complex chemical reactions that occur during combustion in order to minimize harmful emissions. For more information about the Company, please visit www.clearsign.com

Cautionary note on forward-looking statements

This press release includes forward-looking information and statements within the meaning of the Private Securities Litigation Reform Act of 1995 and the provisions of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Except for historical information contained in this release, statements in this release may constitute forward-looking statements regarding our assumptions, projections, expectations, targets, intentions or beliefs about future events that are based on management's belief, as well as assumptions made by, and information currently available to, management. While we believe that our expectations are based upon reasonable assumptions, there can be no assurances that our goals and strategy will be realized. Numerous factors, including risks and uncertainties, may affect our actual results and may cause results to differ materially from those expressed in forward-looking statements made by us or on our behalf. Some of these factors include the acceptance of existing and future products, the impact of competitive products and pricing, general business and economic conditions, and other factors detailed in our Quarterly Report on Form 10-Q and other periodic reports filed with the SEC. We specifically disclaim any obligation to update or revise any forward-looking statement whether as a result of new information, future developments or otherwise.

CONTACT:

Media Contact:

Bronwyn Wallace
Hill+Knowlton Strategies
(713) 752-1929

bronwyn.wallace@hkstrategies.com

Investor Relations:

(206) 673-4848

investors@clearsign.com

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