

Patents

Q2  
2010

**Encapsulation and barriers: A review of the patent landscape**  
*April 2010*

# **cintelliq ltd**

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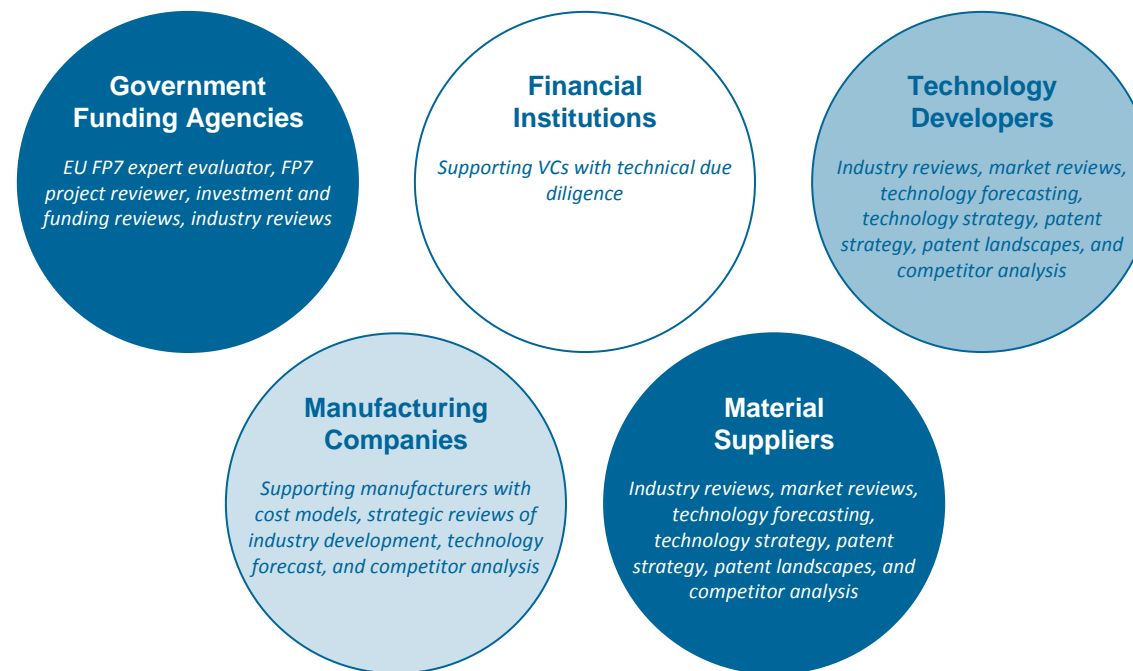
## About cintelliq Limited

- cintelliq provides strategic research and consulting for the needs of the organic semiconductor industry, including OLED lighting, organic photovoltaics, and organic transistors
- cintelliq focuses on providing publications on the commercial and technology developments of the industry such as — the OSA Direct newsletter, The OSA Direct Magazine, and the Organic Semiconductor Patent Analyst.
- cintelliq is also responsible for establishing the annual Organic Semiconductor Conference series in 2003, the next conference - OSC-10 – is planned for Sept 2010, UK.
- Craig Cruickshank founded cintelliq in 2002 in recognition that as basic research in organic semiconductors moves from the research laboratories towards early commercialisation it is imperative that organisations with a vested interest in the development and commercialisation of the technology have access to sufficient industry information.

## Consulting from cintelliq

cintelliq offer consulting services from patent analysis, technology forecasting, strategic reviews through to cost models. cintelliq has been helping clients from different industry sectors since 2003, and help them to understand the development of the emerging industry enabling them to make the best possible decisions based on our fact-based approach.

### cintelliq advises clients in many industry sectors



For more information please contact cintelliq or visit our website

## About cintelliq

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Examples of past projects

## Examples of recent and past projects

Project	Client	Problem	Solution
Review of the Organic Photovoltaic (OPV) IP landscape	Government funding agency on renewable energy	Our client wanted to develop a broad and deep understanding of OPV patent landscape	Using our knowledge and experience of organic semiconductor patents, cintelliq provided the client with a highly focused, detailed and substantial dataset on OPV patents
Commercial and technical review of OLED lighting	Major European lighting firm	Our client wanted to develop a detailed understanding of commercial and technical opportunities in the OLED lighting industry and strategic options	cintelliq provided a detailed overview of OLED lighting, including the technical developments, list of key players, licensing requirements, IP review, list of major patents, and the development of strategic options for manufacturing
Ten-year OLED IP review	Global management consultancy firm	Our client wanted to develop a broad understanding of OLED patents	Using our knowledge and experience of organic semiconductor patents, cintelliq provided the client with a highly focused dataset relating to OLED patents covering the past ten years
Assessment of organic electronics technology and early applications	World-leading technology, media and financial services company	Our client required an overview of technology developments and early applications for the emerging organic electronics industry.	cintelliq provided a review of these technologies, possible applications and industry sectors that are considered to be early adopters of organic electronics.
Review of Organic Photovoltaic Technology	Government funding agency on renewable energy	Our client wanted a review of S.O.A. and technology trends of OPV	Using our knowledge and experience of organic photovoltaics, cintelliq provided the client with a highly focused report of the current technology, future technology, players, research and manufacturing options
Five-year Organic Photovoltaic (OPV) IP review	World-leading photovoltaic technology and device provider	Our client wanted to develop a broad understanding of OPV patents	Using our knowledge and experience of organic semiconductor patents, cintelliq provided the client with a highly focused dataset relating to OPV patents covering the past five years

## Examples of recent and past projects

Project	Client	Problem	Solution
Review of technology and market for PEDOT	Multinational European chemical business	Our client wanted a technology and market review of PEDOT	Using our knowledge and experience of organic semiconductor technology, cintelliq provided the client with a highly focused report of the current technology, future technology, players, research and manufacturing options
IP review of out-coupling techniques for OLEDs	World-leading OLED technology and device provider	Our client wanted to develop a broad understanding of out-coupling patents	Using our knowledge and experience of OLED technology and organic semiconductor patents, cintelliq provided the client with a report and focused dataset relating to out-coupling patents and highlighting the different approaches to extract light
IP review of hole transport and hole injection materials for OLEDs	World-leading OLED technology and device provider	Our client wanted to develop a broad understanding of HTM and HTL patents	Using our knowledge and experience of OLED technology and organic semiconductor patents, cintelliq provided the client with a detailed report and focused dataset relating to HTM and HTL patents
IP review of thin film encapsulation techniques for OLEDs	World-leading OLED technology and device provider	Our client wanted to develop a broad understanding of thin film encapsulation patents	Using our knowledge and experience of organic semiconductor patents and OLED encapsulation technology, cintelliq provided the client with a detailed report and focused dataset relating to thin film encapsulation patents
Review of LCD technology evolution of the next 3 to 5 years	World-leading OLED technology and device provider	Our client required forecasts of the how LCD technology performance will evolve over the next 3 to 5 years	cintelliq provided a detailed review of current and future LCD performance, enabling the client to set internal targets for the development of OLED technology.
OLED technology due diligence	European VC	Our client wanted to technical due diligence prior to investment of a start-up	cintelliq provided the client with a detailed review OLED technology being developed, giving the VC the confidence to client to undertake their investment

About this review

Study summary

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