

SUMMARY INFORMATION PROVIDED BY SELLER
AND PRESENTED BY OCEAN TOMO BID-ASK™ MARKET

BURN-IN PREVENTION OLED DISPLAY AND PIXEL DESIGNS FOR INK-JET PRINTING



OCEAN TOMO®
BID-ASK™

SUMMARY

For manufacturing televisions with low-speed OLED transistors, multiple rows of pixels are enabled together with these transistors, but each individual row in the group is further selected with diode switches.

OVERVIEW

It is widely recognized that using printing process to make televisions is much more cost-effective than using photolithography process. Such printing process, however, has not been widely adopted, because of the technology limitation that the printed transistors often do not have fast switching speed. This patent portfolio bypasses such technology limitation with newly redesigned television pixels.

With conventional technology, each row of pixels is selected sequentially to switch on their transistors. With our patented technology, multiple rows of pixels are grouped together and selected together to reduce the switching requirement of the transistors. For a television with 1024 rows refreshed at 60 Hertz, conventional technology requires a transistor be switched on within 16 microseconds. With our patented technology, the switching requirement of the transistor can be relaxed to 512 microseconds, when a group of 32 rows of pixels is selected together. Because of the less stringent requirement on the transistors, our patented technology creates the possibility of making televisions with significantly reduced cost, using organic transistors, on a flexible substrate, and manufactured by a roll-to-roll printing process. In addition, large size televisions can now be made with amorphous silicon transistors using low resolution shadow-mask technology.

LIST OF PATENTS

NO.	PATENT DESCRIPTION AND USPTO LINK
9,570,004	Method of driving pixel element in active matrix display
9,439,265	Method of driving pixel element in active matrix display
9,224,325	Method of driving active matrix displays
8,810,483	Active matrix displays having nonlinear elements
8,704,737	Method of driving pixel element in active matrix display
8,698,723	Method of driving active matrix displays
8,674,918	Method of driving active matrix displays
8,358,258	Active matrix display having pixel element with light-emitting element
8,237,880	Active matrix displays having enabling lines
8,044,882	Method of driving active matrix displays
8,022,911	Active matrix displays having nonlinear elements in pixel elements
8,013,826	Method of driving active matrix displays having nonlinear elements in pixel elements
20170162146	Method of Driving Pixel Element in Active Matrix Display

Primary applications for this technology - identify the primary target market

Low cost OLED television and display, manufactured by roll-to-roll printing process
 Low cost LCD display, manufactured with shadow mask

CONTACT



Outside China Contact:

Layna Guo

+1 312 327 8179

lguo@oceantomo.com

David Ghorbanpoor

+1 414 350 4864

David@OTI.com

Established in 2003, Ocean Tomo, LLC provides industry leading financial products and services related to intellectual property including financial expert testimony, valuation, strategy consulting, investment services, risk management products, innovation management services and transaction brokerage. Ocean Tomo assists clients – corporations, law firms, governments and institutional investors – in realizing Intellectual Capital Equity® value broadly defined.

Our Opinion, Management, and Advisory Services are built upon more than two decades of experience valuing intellectual property in the most rigorous of venues – State, Federal and international courts. Our financial, market and technical experts provide a unique understanding of the contributory value of proprietary innovation. This is the cornerstone of our business. This insight permeates every practice.

Headquartered in Chicago, Ocean Tomo has offices in Greenwich, Houston, San Francisco and Shanghai. Ocean Tomo is creator of the live public open cry auction marketplace for intellectual property.

Collectively, Ocean Tomo professionals have:

- Executed over 1000 engagements involving IP worth in excess of \$10 billion;
- Successfully closed transactions where disruptive technology played a key role, with cumulative value in excess of \$750 million;
- Conducted over 300 valuation engagements and 500 financial damages expert testimony engagements.

Ocean Tomo assists clients – corporations, law firms, governments and institutional investors – in realizing Intellectual Capital Equity® value broadly defined.



OCEAN TOMO®
BID-ASK™

OCEANTOMOBID-ASK.COM