AU Optronics (2409) issued patent titled "Display device comprising a data line that includes a main line section, a first line section and a second line section spaced apart from one another"

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Body

TAIWANESE DAILY STOCK REPORT

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AU Optronics (2409) has been issued a new U.S. patent titled "Display device comprising a data line that includes a main line ***section***, a first line ***section*** and a second line ***section*** spaced apart from one another" by the US Patent and Trademark Office. The patent number is 10,440,237 and was issued on October 8, 2019.

ABSTRACT

A display device is provided. A data line includes a main line ***section***, a first line ***section*** and a second line ***section*** spaced apart from one another. The first and second line ***sections*** respectively cross over a first scan line set to form first and second crossing regions. The main line ***section*** crosses over a second scan line set to form third crossing regions. The first line ***section*** is electrically connected to the main line ***section*** and one scan line of a third scan line set via a first switch element. The second line ***section*** is electrically connected to the main line ***section*** and another scan line of the third scan line set via a second switch element. First pixel units, second pixel units and third pixel units correspond respectively to the first crossing regions, the second crossing regions and the third crossing regions.

Appl. No. 15/871,073

SECTION 1 CLAIMS

What is claimed is:

1. A display device, comprising: a plurality of scan lines disposed on a substrate, wherein the scan lines have a first scan line set, a second scan line set and a third scan line set; at least one first switch element and at least one second switch element disposed on the substrate; at least one data line disposed on the substrate, wherein the at least one data line comprises: a main line ***section***, a first line ***section*** and a second line ***section*** spaced apart from one another, wherein the first line ***section*** crosses over the first scan line set to form a plurality of first crossing regions, the second line ***section*** crosses over the first scan line set to form a plurality of second crossing regions, the main line ***section*** crosses over the second scan line set to form a plurality of third crossing regions, the first line ***section*** is directly connected to the main line ***section*** and one of the scan lines of the third scan line set via the at least one first switch element, and the second line ***section*** is directly connected to the main line ***section*** and another one of the scan lines of the third scan line set via the at least one second switch element, and wherein the

first line ***section*** and the second line ***section*** do not cross over the second scan line set; and a plurality of pixel units comprising a plurality of first pixel units, a plurality of second pixel units and a plurality of third pixel units disposed on the substrate and corresponding respectively to the first crossing regions, the second crossing regions and the third crossing regions, wherein each of the first pixel units, each of the second pixel units and each of the third pixel units comprises at least one switching element and at least one micro-light emitting element electrically connected to the at least one switching element, and the switching elements of the first pixel units, the second pixel units and the third pixel units are respectively electrically connected to the first line ***section*** and one of the scan lines of the first scan line set in the corresponding first crossing regions, the second line ***section*** and one of the scan lines of the first scan line set in the corresponding second crossing regions, and the main line ***section*** and one of the scan lines of the second scan line set in the corresponding third crossing regions.

ORIGINAL ANNOUNCEMENT

To view full US patent issued to AU Optronics by the US Patent Office, click *http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=%2Fnetahtml%2FPTO%2Fsearch-adv.htm&r=1&f=G&l=50&d=PTXT&p=1&S1=10,440,237&OS=10,440,237&RS=10,440,237*

Source: United States Patent and Trademark Office

SECTION 2 RANK BY PATENTS ISSUED IN THE PAST 12 MONTHS: AU OPTRONICS VS TAIWAN STOCKS

There are 2,017 listed companies in Taiwan. Of these, 373 (or 18.5%) companies were issued a total of 6,721 patents. Of these 6,439 were issued by the USPTO and 284 by the European Patent Office in the past 12 months, an average of 18 patents per company. The highest number of patents [Rank 1] were issued to Taiwan Semiconductor Manufacturing (2330) at 2042. When ranked by patents issued, Taiwan Semiconductor Manufacturing rank is 1/373. The rank for AU Optronics is 7/373.

TAIWAN Avg	2409	Rank	Rank1	Rank2	Rank3	% of Total
18	124	7	2042 2330	401 2454	314 2303	1.8

SECTION 3 RECENT PATENTS ISSUED TO AU OPTRONICS BY THE US PTO IN THE PAST QUARTER

In the past quarter 23 patents were issued by the US PTO to AU Optronics. Recent 10 patents are as follows:

Issue Date	Title	Patent No.
Oct 01	Panel and manufacturing method thereof	10,429,976
Oct 01	Display apparatus and driving method therefor	10,429,920
Sep 24	Liquid crystal display apparatus	10,423,040
Sep 24	Display panel	10,424,602
Sep 24	Display panel	10,424,603
Sep 17	Display panel	10,418,234
Sep 17	Dual-mode capacitive touch display panel	10,416,804
Sep 10	Display panel	10,410,600
Sep 03	Display panel and method for forming micro component support	10,403,493
Sep 03	Display apparatus and driving method thereof	10,403,223

SECTION 4 AU OPTRONICS ACTIVITIES

AU Optronics Corp. manufactures and markets thin film transistor-liquid crystal displays (TFT-LCDs) and plasma display panels (PDPs). The Company sells its products in Taiwan and exports worldwide.

SECTION 5 AU OPTRONICS PRICE PERFORMANCE SCORECARD (TAIWANESE:2409):

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5.1 The performance of AU Optronics Corp. is placed 1,728/1,793 in the BSS News Bites ranking of price performance of Taiwan stocks in the past year, a percentile ranking of 4.

5.2 Year-to-date

AU Optronics continues downtrend, tumbles 29% in 2019

AU Optronics Corp. (TWSE:2409), sunk TWD3.35 (or 29%) year-to-date (YTD) in 2019 to close at TWD8.19 today. This means the stock is amongst the bottom 3% of Taiwan-listed stocks in 2019. Compared with the FTSE TWSE Taiwan 50 Index which has risen 16.3% YTD, this is a relative price change of -45.3%.

5.3 MCap History:

In the past 5 years Market Capitalization has decreased by TWD44.4 billion from TWD123.2 billion to TWD78.8 billion. Based on a dynamic start date of 5 years ago, there have been declines in MCap in 3 out of 5 years.

	Price	MCap (TWD B)	MCap (US$ M)
Last	TWD8.19	78.8	2,576.9
1 Year ago	TWD10.69	108.8	3,555.5
2 Years ago	TWD10.37	118.9	3,910.5
3 Years ago	TWD9.68	115.5	3,661.1
4 Years ago	TWD7.78	96	2,955.4
5 Years ago	TWD9.63	123.2	4,040.6

5.4 Moving Annual Return (Past 5 years)

Based on a dynamic start date of 5 years ago, the real rate of return has averaged 5.3%. The Moving Annual Return has been positive in 3 out of 5 years.

2409	Close (TWD)	Dividends (TWD)	Capital Gain / (Loss) %	% Yield	Annual Return %
Oct 14	8.19	0.5	(23.4)	4.7	(18.7)
1 Yr ago	10.69	1.5	3	14.5	17.5
2 Yrs ago	10.37	0.56	7.2	5.8	13.0
3 Yrs ago	9.68	0.35	24.3	4.5	28.8
4 Yrs ago	7.78	0.5	(19.2)	5.2	(14.0)

Close 5 years ago TWD9.63

5.5 Present Value of TWD1000 invested in the past

The present value of TWD1000 invested a year ago is TWD809

PV$1000	1-week	1-month	1-year
2409.TWSE	1,037	998	809
FTSE TWSE Taiwan 50 Index	1,019	1,032	1,090

5.6 Trailing Price Change %

1-Year price change for AU Optronics was -23.4%. Compared with the FTSE TWSE Taiwan 50 Index which rose 9.0% in the year, the relative price change was -32.4%.

Price Change %	1-Month	3-Month	1-Year
2409	-0.2	-6.4	-23.4
Optoelectronic sector	3.7	-0.1	12.0
FTSE TWSE Taiwan 50 Index	3.6	4.3	9.0

SECTION 6 AU OPTRONICS FINANCIALS AND GROWTH PERFORMANCE SCORECARD (TAIWANESE:2409):

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6.1 Key Financials (All figures percent)

EPS Growth has improved from -74.7% in 2015 to -68.5% in 2018, Revenue Growth has improved from -11.6% in 2015 to -9.8% in 2018, Operating Margin has improved from 2.1% in 2015 to 3.6% in 2018 and Return on Equity has improved from 2.6% in 2015 to 3.7% in 2018.

2409	Revenue Growth	EPS Growth	Operating Margin	ROE
2018	-9.8	-68.5	3.6	3.7
2017	2.9	314.8	11.5	13.4
2016	-8.7	76.1	3.4	2.7
2015	-11.6	-74.7	2.1	2.6

6.2 Growth

Annual Trend in Revenue, EPS and EBITDA:

5-years average annualized earnings growth rate of 19.2%

+ Revenue growth, Earnings per share growth and EBITDA growth have shown signs of deterioration in recent years. [Year ended, all figures in %]

Year	Revenue Growth	EPS Growth	EBITDA Growth
Dec 18	-9.8	-68.5	-71.5
Dec 17	2.9	314.8	251.9

6.3 High Performance Indicators and rank of AU Optronics in the Taiwanese market:

Description	Value	Rank In Market
P/E * P/NTA	3	In Top 3%
Today's Trading Turnover	TWD534.9 million (US$17.5 million)	In Top 3%
Price to Sales	0.3	In Top 6%
Price Change %	3.8	In Top 8%

SECTION 7 AU OPTRONICS GLOBAL RANK (TAIWANESE:2409):

Rank in the TSEC Taiwan 50 Index [out of 47 stocks]

Description	Value	Rank
MCap (US$)	2.6B	44
Total Assets (US$)	13.4B	25
Revenue (US$)	10.1B	14
Net Profit (US$)	332.2M	34
Return on Equity %	3.7	45
Net Profit Margin %	2.6	42
Price to Book	0.4	2
Price Earnings	7.7	4
Yield %	6.1	12
PV$1000 (1Year) US$*	818	46
% Change YTD	-29.0	47

Oct 14, 2019: USD 1 equals TWD 30.5876

COMPANY IDENTIFIERS

AU Optronics Corp. (TW:2409; TPE:2409; TT:2409)

ISIN: TW0002409000

PermID: 4295890965

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Organization: PATENT & TRADEMARK OFFICE (57%)

Ticker: AUO (NYSE) (92%); 2409 (TAIEX) (92%); 2409

Industry:

Geographic: ASIA (79%); UNITED STATES (56%); Taiwan; Taiwan

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