

Patent Marking Lists for San'an Products (as of June 5, 2023)

**GaN Series LED Devices (including Mini/Micro LED)**

These products are covered by the respective patents listed below:

|              |             |             |              |
|--------------|-------------|-------------|--------------|
| US11637223B2 | US9190569B2 | US8217417B2 | US6831302B2  |
| US8319243B2  | US9190557B2 | US7955959B2 | US7495260B2  |
| US8063410B2  | US9190395B2 | US9537057B2 | US7417367B2  |
| US7800126B2  | US9159895B2 | US7074631B2 | US11637218B2 |
| US7611992B2  | US9269698B2 | US7521273B2 | US11532769B2 |
| US8816321B2  | US9006768B2 | US7915620B2 | US9130137B2  |
| US7352009B2  | US8860059B2 | US8575643B2 | US10522713B2 |
| US9312438B2  | US8860044B2 | US7211831B2 | US11424385B2 |
| US9337384B2  | US8581268B2 | US7341880B2 | US7994521B2  |
| US9312449B2  | US8653555B2 | US7166870B2 | US11393967B2 |
| US9337406B2  | US9397253B2 | US7105861B2 | US10916688B2 |
| US9246053B2  | US9356190B2 | US7301271B2 | US11522107B2 |
| US9219194B2  | US8507357B2 | US7344903B2 | US10431716B2 |
| US9293673B2  | US8415702B2 | US7138666B2 | US10707395B2 |
| US9257614B2  | US8436377B2 | US7098589B2 | US10297736B2 |
| US9202974B2  | US9318657B2 | US7166871B2 | US10431713B2 |
| US9190572B2  | US9324907B2 | US7262550B2 | US10446718B2 |

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|--------------|--------------|--------------|--------------|
| US11522106B2 | US10716262B2 | US10096746B2 | US11296256B2 |
| US11380829B2 | US8872217B2  | US10211367B2 | US8217415B2  |
| US11557693B2 | US9219200B2  | US11393950B2 | US8455285B2  |
| US11538960B2 | US8815622B2  | US10707381B2 | US7482640B2  |
| US11417801B2 | US11456400B2 | US11043613B2 | US11127886B2 |
| US10673003B2 | US8110425B2  | US10629776B2 | US9312434B1  |
| US10340469B2 | US10276750B2 | US9997665B2  | US10014460B2 |
| US10050181B2 | US10249790B2 | US9825203B2  | US10199538B2 |
| US9640725B2  | US10312409B2 | US9548428B2  | US9570654B2  |
| US11309297B2 | US10263147B2 | US9520538B2  | US10043942B2 |
| US11404602B2 | US10249789B2 | US9559261B2  | US8823046B2  |
| US11430918B2 | US10283677B2 | US10186637B2 | US9947830B2  |
| US10418518B2 | US10297733B2 | US10600935B2 | US10593835B2 |
| US10411163B2 | US10263139B2 | US10535796B2 | US10978612B2 |
| US10043944B2 | US11189751B2 | US9537048B2  | US10665748B2 |
| US10026867B2 | US10115858B2 | US10825957B1 | US9666757B2  |
| US11424387B2 | US10622507B2 | US7625769B2  | US10559732B2 |
| US10249773B2 | US10242958B2 | US10205061B2 | US9530938B2  |
| US10727054B2 | US8072134B2  | US9929308B2  | US9263644B2  |
| US9065018B2  | US10158046B2 | US7897988B2  | US11107950B2 |

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|--------------|--------------|--------------|--------------|
| US11127879B2 | US10014436B2 | US11063184B2 | US10154626B2 |
| US10205057B2 | US8278190B2  | US10707380B2 | US10115861B2 |
| US9705033B2  | US7719019B2  | US9558954B2  | US10874057B2 |

**AlGaInP Series LED Devices (including Mini/Micro LED)**

These products are covered by the respective patents listed below:

|              |              |              |             |
|--------------|--------------|--------------|-------------|
| US10038120B2 | US10453992B2 | US11063184B2 | US7166865B2 |
| US10043942B2 | US10497837B2 | US11309297B2 | US7166870B2 |
| US10050181B2 | US10522713B2 | US11322657B2 | US7166871B2 |
| US10115861B2 | US10593835B2 | US11417801B2 | US7211831B2 |
| US10154626B2 | US10672953B2 | US11522107B2 | US7247985B2 |
| US10158045B2 | US10673003B2 | US11563140B2 | US7262550B2 |
| US10249773B2 | US10707381B2 | US6831302B2  | US7301271B2 |
| US10249777B2 | US10716262B2 | US6864514B2  | US7341880B2 |
| US10249791B2 | US10720550B2 | US7049212B2  | US7344903B2 |
| US10283677B2 | US10874057B2 | US7074631B2  | US7345416B2 |
| US10340469B2 | US10930815B2 | US7075120B2  | US7417367B2 |
| US10367120B2 | US11011674B2 | US7084434B2  | US7465962B2 |
| US10411163B2 | US11043609B2 | US7098589B2  | US7482640B2 |
| US10411165B2 | US11043613B2 | US7105861B2  | US7495260B2 |
| US10446718B2 | US11056669B2 | US7138666B2  | US7521273B2 |

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| US7531370B2 | US8072134B2 | US7611992B2 | US9219200B2 |
| US7541621B2 | US8110838B2 | US8552441B2 | US9548428B2 |
| US7625769B2 | US8120041B2 | US8643266B2 | US9558954B2 |
| US7719019B2 | US8217415B2 | US8815622B2 | US9698306B2 |
| US7897988B2 | US8278190B2 | US8872217B2 |             |
| US7994521B2 | US8399906B2 | US9184356B2 |             |

**LED Package (including MIP)**

These products are covered by the respective patents listed below:

|              |             |              |              |
|--------------|-------------|--------------|--------------|
| US9147816B2  | US8217402B2 | US9431582    | US8629476B2  |
| US10403785B2 | USD623609S1 | US8110838B2  | US9241375B2  |
| US9627582B2  | USD622663S1 | USD686581    | US9768153B2  |
| US8643266B2  | US7196354B1 | US10290788B2 | US10490535B2 |
| US7084434B2  | USD617289S1 | US10347806B2 | US10741533B2 |
| US7170100B2  | USD606021S1 | US11538965B2 | US11424210B2 |
| US7692207B2  | USD624029S1 | US8882313B2  | US7598532B2  |
| US7934841B2  | USD603352   | US9224719B2  | US7964886B2  |
| US8251520B2  | US7993940B2 | US7579629B2  | US7455423B2  |
| USD777121    | US8110835B2 | US11476227B2 | US8138666B2  |
| USD623608    | US9972753B2 | US8030675B2  | US8415681B2  |
| US7781779B2  | US8362603B2 | US8421109B2  | US9224930B2  |

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|             |              |              |              |
|-------------|--------------|--------------|--------------|
| US9666776B2 | US10505088B2 | US9966514B2  | US11462517B2 |
| US7872418B2 | US9472726B2  | USD768095S1  | US11125417B2 |
| US9276179B2 | US9812613B2  | US10658550B2 | US11569410B2 |
| US9520542B2 | US10367126B2 | US10833232B2 | US11450651B2 |
| US8476657B2 | US9437793B2  | US11005008B2 | US11424387B2 |
| US8648358B2 | US9711704B2  | US11217732B2 | US11456400B2 |
| US9537065B2 | US10510938B2 | US11271362B2 | US11424385B2 |
| US9728697B2 | USD756942S1  | US11626547B2 |              |
| US9306138B2 | USD761215S1  | US11362074B2 |              |

**UV Products**

These products are covered by the respective patents listed below:

|              |              |              |              |
|--------------|--------------|--------------|--------------|
| US11637223B2 | US9337406B2  | US9293673B2  | US9184356B2  |
| US8575643B2  | US9337384B2  | US9246053B2  | US7915620B2  |
| US9130137B2  | US9312449B2  | US9190572B2  | US6468818B2  |
| US10916688B2 | US9312438B2  | US9190557B2  | US6399409B2  |
| US6299056B1  | US6815726B2  | US10347806B2 | US10707395B2 |
| US10158046B2 | US8860059B2  | US11538960B2 | US11393967B2 |
| US10158045B2 | US9318657B2  | US10658550B2 | US10825957B1 |
| US6617182B2  | US11626547B2 | US11362074B2 |              |

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***The patent lists for other products (such as RF series, laser series, and Power Device series, etc.) is being updated.***