

Your business won't grow if you don't own the best IP: Auction of high power LED patent portfolio

AUCTION ON
FEBRUARY 28,
2020



174 LED patents



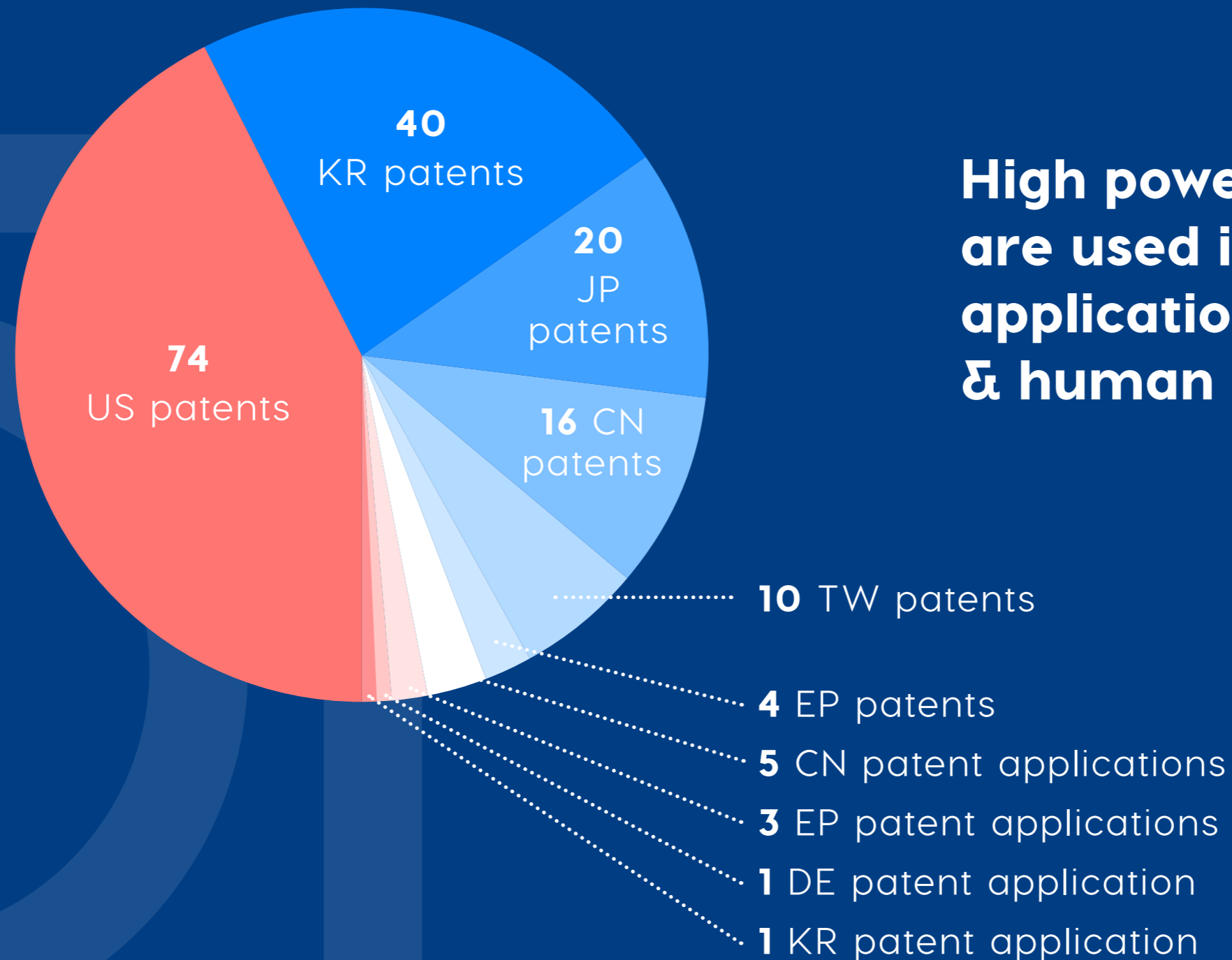
Evidence of use available for car headlights & smartphones



Market size >USD 16 billion

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 **174 LED patents**



High power LED packages are used in automotive applications, smartphones & human centric lighting.



Evidence of use available for car headlights & smartphones

Patent Number	Name	Priority Date	Estimated Expiration Date
US 7321109	Characteristic and/or use-based electromagnetic radiation generation	2003-04-23	2024-04-23
US 7982234 & DE 102009025015 (open DE application)	Light emitting device and method for fabricating the same	2008-07-08	2029-07-06
US 8247244	Light emitting device and method of manufacturing the same	2008-06-19	2028-10-29
US 8247792	Light emitting diode having modulation doped layer	2008-08-20	2029-08-12
US 8309971, US 9018669 & US 9793440	Light emitting diode having electrode pads	2010-01-07	2031-04-04
US 8395166	Light emitting diode and method of fabricating the same	2007-12-28	2029-04-19



High power, mid power & CSP LED package patents

Patent Number	Name	Priority Date	Estimated Expiration Date
US 8633503	Wafer level light emitting diode package and method of fabricating the same	2010-09-30	2032-01-18
US 8659050, US 9412913 & US 9530942	Slim LED package	2007-12-03	2028-11-18
US 8791483	High efficiency light emitting diode and method for fabricating the same	2010-03-31	2031-07-29
US 8796710	Light emitting diode package	2010-05-24	2031-11-17
US 9093615	LED module, method for manufacturing the same, and LED channel letter including the same	2011-03-11	2033-10-21

The portfolio includes high & mid power LED package and CSP (Chip Scale Package) patents. Mid power LED packages are used in TV sets, monitors, notebooks and general lighting. CSP are getting more popular because of their small size.



Market size >USD 16 billion

The global LED package market is >USD 16 billion large.

Demand from mobile phone users for high-quality image capture in dim light compels smartphone makers to include high power LED in flash lighting modules.

The high power LED market will grow from USD 4.5 billion in 2019 to USD 5.6 billion by 2024 (MarketsandMarkets).

LED makers are Cree (US), Nichia (Japan), Osram (Germany), Samsung (South Korea), Everlight (Taiwan), Lumileds (Netherlands), Epistar (Taiwan), LG Innotek (South Korea), Broadcom (US), MLS (China), and the seller of this portfolio Seoul Semiconductor (South Korea).



Auction process

How to bid

You can place your bid per email, phone or on the GoodIP platform.

You can place your bid on or before February 28, 2020. Bids are sealed and not public.

What to bid

You can place an all cash up-front bid or a hybrid bid (up-front and back-end). Cash up-front bids are preferred.

You can place a bid for subsets of the portfolio. Bids for entire portfolio are preferred.

The reserve price is not public. We may reject any bid and withdraw any or all patents for sale at any time.

After your bid

We will select the best buyer together with the seller.

We will inform the winning bidder on March 9, 2020. Closing is expected to occur before March 31, 2020 subject to signing of a customary patent purchase agreement.

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Auction on February 28, 2020

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