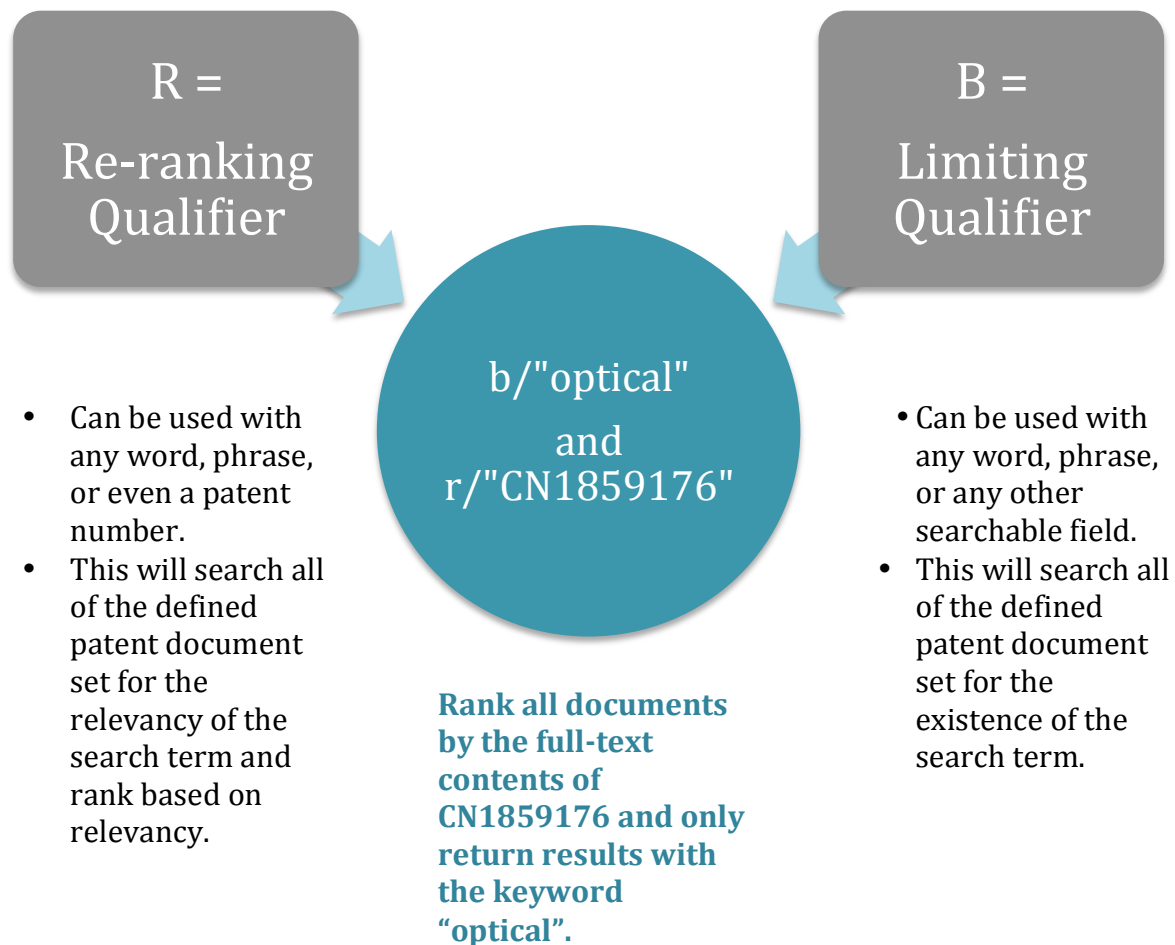


User Search Guide

Constructing thoughtful and complete patent search queries that limit enough patents so that the result set is not daunting while not being overly restrictive and filtering out key patents is a delicate and difficult balancing act to achieve correctly and repeatedly for each different search query.

Patentics has an easy-to-use and straightforward solution that eliminates this tedious search strategy.

We call it **B and R**.



Patentics can also rank the entire full-text patent database according to a single patent and return all of the results by only using the **R** qualifier: CN1859176.

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772447 results: Rank(%):0 File PN: CN1859176

772447 full-text patents including keyword "optical"

Chinese full-text translated in English

After calculation, Its US family ranked as top result

PN	Title	Assignee	Inventors	Class	ICL	Rank
CN1859176	Optical communication system automatically restore detection, automatic recovery method and device	HUAWEI TECH CO LTD	LU YIQUAN LI	H04L		0%
2008/0240713	METHOD AND APPARATUS FOR AUTOMATIC RESTORATION DETECTION AND AUTOMATIC RESTORATION OF OPTICAL COMMUNICATION SYSTEM	Huawei Technologies Co., Ltd.	Lu; Yiquan Li; Congqi Wang; Hao Chen; Juan	398	H04B	95%
2009/0324214	Method, Apparatus and System for Handling Fiber Line Fault	Huawei Technologies Co., Ltd.	Li; Congqi Wang; Hao Lu; Yiquan	398	H04B	94%
2008/0232797	Method of Controlling Optical Amplifier Located at an Optical Link	Huawei Technologies Co., Ltd.	Li; Tal	398	H04B	92%
2004/0042063	Optical transmission system	Fujitsu Limited	Takahashi, Tsukasa Ishikawa, Eiji Ikeda, Hiroto Deguchi, Hiroyuki	359	H01S	92%
2007/0242347	Optical transmission system	Fujitsu Limited	Ishikawa; Eiji Ikeda; Hiroto	359	H04B	92%

EPO examiner cited X document in search report is ranked at 4th

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Search Guide QuickFields QueryExpansion **241594 full-text patents including keyword "optical" and published before CN1859176 file date** US Application Fulltext view

241594 results: Rank(%):0 File PN:

PN	Title	Assignee	Inventors	Class	ICL	Rank
2004/0042063	Optical transmission system	Fujitsu Limited	Ohtani, Toshihiro Takahashi, Tsukasa Ishikawa, Eiji Ikeda, Hiroto Deguchi, Hiroyuki	359	H01S	92%
2003/0194233	Automatic protection system for an optical transmission system	Cisco Photonics Italy S.r.l.	Casanova, Mauro Rudi Centenari, Pietro Nava, Adriano	398	G02F	91%
2002/0131099	Optical transmission system	Fujitsu Limited	Harasawa, Shin-Ichirou Young, Marvin Ray Eiselt, Michael H.	398	H04B	90%
2003/0231886	Automated optical transport system	Fujitsu Limited	Passier, Chris Atkinson, David Krentz, Carl Krishnaswamy, Madhu Chauvin, Jean Guy Robinson, Andrew Nagarajan, Rajkumar	398	H04J	89%
2004/0047628	Automatic optical power management in an optical communication system	Lucent Technologies Corporation	Tomofuji, Hiroaki Maeda, Takuji Maeda, Taizo Kobayashi, Hideki Nagayoshi, Tatsuo Wada, Tetsuo	398	G02F	89%
2005/0158057	Optical transmission system with automatic signal level adjustment and startup functions	Fujitsu Limited	Bosloy, Jonathan L. Pavel, Laccramioara Passier, Chris Brown, Matthew	398	H04B	89%
2004/0208518	Apparatus and method for planned wavelength addition and removal in a wavelength division multiplexed system	Lucent Technologies Corporation	DeCusatis, Casimer M. Jacobowitz, Lawrence	385	G02B	89%
2002/0114060	Optical amplifier	Fujitsu Limited	Kobayashi, Hideki Takahashi, Tsukasa Ohtani, Toshihiro Izumi, Eiyoshi Mori, Shota	359	H01S	89%
2005/0002669	Method, apparatus and system for the automatic provisioning of a network element	LUCENT TECHNOLOGIES INC.	Adleman, Richard Bartman, Peter L. Blach, Heribert Joseph Eng, Ellen Raghavan, Narasimhan Shi, Yan Socratous, Mary Thompson, William A.	398	H04B	88%
2003/0030893	OPTICAL PRE-AMPLIFIER APPARATUS AND METHOD FOR RECEIVER PERFORMING GAIN CONTROL ACCORDING TO LOS DECLARATION	CIENA Corporation	Cornelius, Steven Corwin, Robert Miller, Donald J. brownlee, John Dasika, Prasad	359	H01S	88%
2002/0024699	Optical transmission system constructing method and system	Hitachi, Ltd.	Tomooka, Keiji Sakakida, Naohiro Nishimura, Shin Ashi, Yoshihiro Natsuda, Hironari Aoki, Satoshi Nakano, Yukio Takatori, Masahiro Kazawa, Toru Sasaki, Shinya Takeyari, Ryoji Nakano, Hiroyuki	398	H04J	88%
2005/0185957	Optical output control method for use in Optical transmission node and Optical output control apparatus for use in the same	Fujitsu Limited	Ohtani, Toshihiro Sato, Masaki	398	H04B	87%

EPO examiner cited X documents ranked 1,9,13

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