



Dr. rer. nat. Christian Krauns

Dipl.-Phys.

German and European Patent Attorney

European Trademark and Design Attorney

Languages

German, Japanese, English, French, Italian

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Technical Expertise

Mechanical Engineering

Physics

Electrical Engineering, Electronics
and Semiconductors (EE)

Information and Communication
Technology (ICT)

Materials Science



Legal Expertise

Patent and Utility Model Protection

Dr. Christian Krauns holds a doctorate in physics. He has been admitted as a German Patent Attorney since 2005 and as a European Patent Attorney since 2007. Dr. Krauns is familiar with the Japanese language, as well as with Japanese patent law due to having lived and worked in Japan.

Legal Practice

Dr. Krauns has been active in intellectual property law since 2001, initially at a large German law firm specializing in Japanese clients, and since 2010 as a Patent Attorney at Wallinger Ricker Schlotter Tostmann.

Dr. Krauns' expertise in intellectual property law focuses on drafting, prosecuting and maintaining patents, trademarks, utility models, and designs in national proceedings (German Patent and Trademark Office) and in European proceedings (European Patent Office, Office for Harmonization in the Internal Market) as well as in international proceedings (World Intellectual Property Organization).

In addition, Dr. Krauns has extensive experience in proceedings before the Japanese Patent Office and in proceedings relating to Japan and Korea in general.



Dr. rer. nat. Christian Krauns

Dipl.-Phys.

Career

since 2010

Patent Attorney at Wallinger Ricker Schlotter Tostmann

seit 2005 / 2007

Admission as German Patent Attorney and European Patent Attorney

since 2001

Activities in intellectual property law, initially in a large German law firm specializing in Japanese clients

1998–1999

Postdoctoral researcher at the Sophia Antipolis Technology Center at the Institut Non-Linéaire de Nice and Fellow at the Superconductivity Research Laboratory in Tokyo

1992–1995

ISTEC fellow at the Superconductivity Research Laboratory in Tokyo and research associate at the Institute of Metal Physics in Göttingen, Germany



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Technical Background

Dr. Krauns studied physics at the University of Göttingen, Germany and at the International Superconductivity Technology Center (ISTEC) in Tokyo. There, he initially specialized in metallurgy and materials science.

From 1992 to 1995, Dr. Krauns was an ISTEC fellow at the Superconductivity Research Laboratory in Tokyo, followed by a position as a research associate at the Institute of Metal Physics in Göttingen.

From 1998 to 1999, Dr. Krauns worked as a postdoctoral fellow at the Sophia Antipolis Technology Center at the Institut Non-Linéaire de Nice, followed by a fellowship at the Superconductivity Research Laboratory in Tokyo. In these research and development facilities, Dr. Krauns gained extensive experience in the fields of metal physics, metallurgy, materials science, solid state physics, semiconductor physics, catalytic processes, crystal growth processes, and thin film processes.



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Memberships

- + Patent Attorneys Association (PAK)
- + Institute of Professional Representatives before the European Patent Office (epi)
- + German Physical Society (DPG)
- + European Physical Society (EPS)

Publications

Initial stage in the liquid phase epitaxy of Nd123 films: dependence of growth rate on process parameter; Ch. Krauns, S. Koyama, T. Izumi, T. Izumi, Y. Nakamura, Y. Shiohara. Physica C, Volume 357, Issue 2002, p. 1055-1058

Ternary phase diagram of SmO_{1.5}-BaO-CuO_y system for melt processing; M. Kuznetsov, Ch. Krauns, Y. Nakamura, T. Izumi and Y. Shiohara. Physica C 357-360 (2001) p. 1068-1072

Fiber glass supported catalysts and pure platinum: laser ignition of catalytic combustion of propane; Ch. Krauns, V. Barelko, G. Fabre, J. Tredicce and V. Krinsky. Catalysis Letters p. 161-165, Vol. 72, No. 3-4, 2001

Top-Seeded Solution Growth of Y₁Ba₂Cu₃O_{7-x} Seed Crystals for Melt Texturing of Y₁Ba₂Cu₃O_{7-x}; Initial stage in the liquid phase epitaxy of Nd123 films: dependence of growth rate on process parameter; Ch. Krauns, S. Koyama, T. Izumi, T. Izumi, Y. Nakamura, Y. Shiohara. Physica C, Volume 357, Issue 2002, p. 1055-1058

Ternary phase diagram of SmO_{1.5}-BaO-CuO_y system for melt processing; M. Kuznetsov, Ch. Krauns, Y. Nakamura, T. Izumi and Y. Shiohara. Physica C 357-360 (2001) 1068-1072

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Top-Seeded Solution Growth of Y₁Ba₂Cu₃O_{7-x} Seed Crystals for Melt Texturing of Y₁Ba₂Cu₃O_{7-x}; Ch. Krauns, B. Bringmann, C. Brandt, M. Ullrich, K. Heinemann and H. C. Freyhardt. Applied Superconductivity 158 (1997): 833-886



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Growth of Bulk Monolithic YBCO for Magnetic Levitation; M. Ullrich, D. Müller, Ch. Krauns, B. Bringmann, A. Leenders, C. Brandt, M. Reder, A. Preusser and H. C. Freyhardt. *Advances in Superconductivity X* (1997): 76-79

Oxygen partial pressure dependence of the Yttrium solubility in Y-Ba-Cu-O; M. Nakamura, Ch. Krauns and Y. Shiohara. *J. Mater. Res.* vol.11 no.5 (1996): 1076-1081

Top-Seeded Solution Growth of Y1Ba2Cu3O7-d Superconductive Crystals; Y. Yamada, M. Nakamura, Ch. Krauns, M. Tagami, Y. Shiohara, S. Tanaka. *J. Crystal Growth* 166, (1996): 804-809

Kristallzucht von SmBa2Cu3O7-x-Hochtemperatursupraleitern nach einem modifizierten Czochralski-Verfahren, Dissertation, Ch. Krauns, Göttingen, 1995

Fabrication of Single Crystal of SmBa2Cu3O7-x by the Modified Top-Seeded Solution Growth Method in Low Oxygen Partial Pressure Atmosphere; M. Nakamura, Ch. Krauns and Y. Shiohara. *Jpn. J. Appl. Phys.* 34 (1995): 6031-6035

Growth Rate Estimation of single Crystal Grown by Crystal Pulling; Y. Yamada, Ch. Krauns, M. Nakamura, M. Tagami and Y. Shiohara. *J. Mater. Res.* vol. 10 no.7 (1995): 1601-1610

High Temperature Phase Relationship in the PrBaO3-BaCu3O4 Quasi-Binary System; M. Sumida, M. Tagami, Ch. Krauns, Y. Shiohara and T. Umeda. *Physica C* 249 (1995): 47-52

Comparison of the Growth of Sm1Ba2Cu3O7-x Single Crystals; Ch. Krauns, M. Tagami, M. Nakamura, Y. Yamada and Y. Shiohara. *Advances in Superconductivity VII* (1994): 641-644

Interface Structure of Y123/Pr123 Bicrystals Grown by SRL-CP Method; M. Tagami, M. Sumida, Ch. Krauns, Y. Yamada and Y. Shiohara. *Advances in Superconductivity VII* (1994): 633-636

Characterization of Pr1Ba2Cu3O7-y single crystals by crystal pulling using MgO crucible; M. Tagami, M. Sumida, Ch. Krauns, Y. Yamada, T. Umeda and Y. Shiohara. *Physica C* 235-240 (1994): 361-362

Fabrication of SmBa2Ba3O7-x Single Crystals by the SRL-CP Method under Low Oxygen Partial Pressure Atmosphere; M. Nakamura, Ch. Krauns, Y. Yamada and Y. Shiohara. *Advances in Superconductivity VII* (1994): 649-652



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Solubility of RE elements into Ba-Cu-O melts and the enthalpy of dissolution; Ch. Krauns, M. Sumida, M. Tagami, Y. Yamada and Y. Shiohara. Z. Phys. B 96 (1994): 207-212

Wetting between prospective crucible materials and the Ba-Cu-O melt; Ch. Krauns, M. Tagami, Y. Yamada, M. Nakamura and Y. Shiohara. J. Mater. Res. vol. 9 no. 6 (1994): 1513-1518

Fabrication of PrBa₂Cu₃O_{7-x} Single Crystals by Crystal Pulling; M. Tagami, M. Sumida, Ch. Krauns, Y. Yamada, T. Umeda and Y. Shiohara. Advances in Superconductivity VI (1993): 787-790

High Temperature Phase Relationship in the Pr-Ba-Cu-O System; M. Sumida, M. Tagami, Ch. Krauns, T. Umeda and Y. Shiohara. Advances in Superconductivity VI (1993): 775-778

Comparison of the oxygen diffusion in YBa₂Cu₃O_{7-x} bulk materials and thin films; Ch. Krauns and H. U. Krebs. Z. Phys. B 92 (1993): 43-46

Oxygen Diffusion in laser deposited YBaCuO thin films; H. U. Krebs, Ch. Krauns and F. Mattheis. J. Alloys Compounds 195 (1993): 203-206

Liquidus Compositions of RE-Ba-Cu-Oxides (Re=Y,Sm); Ch. Krauns, M. Tagami, M. Sumida, Y. Yamada and Y. Shiohara. Advances in Superconductivity VI (1993): 767-769

Island growth and surface topography of epitaxial Y-Ba-Cu-O thin films on MgO; H. U. Krebs, Ch. Krauns, X. Yang and U. Geyer. Appl. Phys. Lett. vol. 59 no.17 (1991): 2180-2182



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