

E. Fritz-Langhals, Patents

51. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Process for preparing aldehydes from 1,3,5 trioxanes. WO 2021/213663 A1 (2021-10-28). *Chem. Abstr.* **2021**, 176, 455924.
50. Fritz-Langhals, E.; Gowans, S. Wacker Chemie AG, Munich, Germany. Noble metal-free hydrosilylatable mixture. WO 2021/209127 A1 (2021-10-21). *Chem. Abstr.* **2021**, 176, 402814.
49. Fritz-Langhals, E.; Piroutek, P. Wacker Chemie AG, Munich, Germany. Process for preparing alkoxysil(ox)anes from hydridosilicon compounds. WO 2021/170225 A1 (2021-09-02). *Chem. Abstr.* **2021**, 176, 104554.
48. Fritz-Langhals, E. Bochmann, S.; Ruppel, L. Wacker Chemie AG, Munich, Germany. Halogenated tetrasilyl boranates. WO 2021/170226 A1 (2021-09-02). *Chem. Abstr.* **2021**, 176, 104546.
47. Fritz-Langhals, E. Kneissl, S.; Piroutek, P. Wacker Chemie AG, Munich, Germany. Process for preparing siloxanes from hydridosilicon compounds. WO 2021/069081 A1 (2021-04-15). *Chem. Abstr.* **2021**, 174, 826988.
46. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Process for preparing polyolefins. WO 2020/244772 A1 (2020-12-10). *Chem. Abstr.* **2020**, 174, 137706.
45. Fritz-Langhals, E. Weidner, R. Wacker Chemie AG, Munich, Germany. Preparation of siloxanes in the presence of cationic germanium (II) compounds. WO 2020/228923 A1 (2020-11-19). *Chem. Abstr.* **2020**, 174, 31433.
44. Fritz-Langhals, E.; Weidner, R.; Werge, S. Wacker Chemie AG, Munich, Germany. Cationic germanium(II) compounds, process for preparing same, and their use as catalysts in hydrosilylation. WO 2020/228922 A1 (2020-11-19). *Chem. Abstr.* **2020**, 174, 8196.
43. Fritz-Langhals, E.; Scheim, U. Wacker Chemie AG, Munich, Germany. Process for preparing bicyclic guanidines for use as catalysts. WO 2020/048604 A1 (2020-03-12). *Chem. Abstr.* **2020**, 172, 307071.
42. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Process for producing organosiloxanes comprising triorganosilyloxy groups. WO 2020/025144 A1 (2020-02-

- 06). *Chem. Abstr.* **2020**, 172, 221746.
41. Fritz-Langhals, E.; Weidner, R. Wacker Chemie AG, Munich, Germany. Method for preparing aminopropylsilanes. WO 2019/154479 A1 (2019-08-15). *Chem. Abstr.* **2019**, 171, 261563.
40. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Process for metal-free hydrosilylation of unsaturated compounds using silicon(IV) cationic complexes as catalysts. WO 2019/120497 A1 (2019-06-27). *Chem. Abstr.* **2019**, 171, 104962.
39. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Inhibited noble-metal-free mixtures for hydrosilylation. WO2019/072378 A1 (2019-04-18). *Chem. Abstr.* **2019**, 170, 488736.
38. Fritz-Langhals, E.; Weidner, R. Wacker Chemie AG, Munich, Germany. Preparation of siloxanes in the presence of cationic silicon(II) compounds. WO2019/068357 A1 (2019-04-11). *Chem. Abstr.* **2019**, 170, 501378.
37. Dörrich, S.; Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Process for preparing siloxane mixtures with a low content of silanol and hydrocarbonoxy groups DE 1020/17214382 A1 (2019-02-21). *Chem. Abstr.* **2019**, 170, 331025.
36. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Crosslinking of hydridosiloxanes with cationic silicon(II) compounds. WO 2018/215056 A1 (2018-11-29). *Chem. Abstr.* **2018**, 170, 31073.
35. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Release of active substances using polymers containing silicone. WO 2018/210406 A1 (2018-11-22). *Chem. Abstr.* **2018**, 170, 22175.
34. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Method for producing cationic silicon(II) compounds. WO 2018/188749 A1 (2018-10-18). *Chem. Abstr.* **2018**, 169, 419319.
33. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Carbocationically hydrosilylatable mixture. WO 2018/153471 A1 (2018-08-30). *Chem. Abstr.* **2018**, 169, 305133.
32. Fritz-Langhals, E.; Weidner, R.; Kneissl, S. Wacker Chemie AG, Munich, Germany. Emulsions containing amino acid-functional siloxanes. WO 2018/141405 A1 (2018-08-

- 09). *Chem. Abstr.* **2018**, *169*, 258036.
31. Fritz-Langhals, E.; Weidner, R. Wacker Chemie AG, Munich, Germany. Absorbing water and other liquids into silicone-based polymers. WO 2018/141406 A1 (2018-08-09). *Chem. Abstr.* **2018**, *169*, 243979.
30. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Process for producing hydridosilanes by disproportionation of hydrosiloxanes in the presence of Si(II) cationic catalyst. WO 2018/103864 A1 (2018-06-14). *Chem. Abstr.* **2018**, *169*, 63102.
29. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Cationic silicon(II) compounds and method for the production thereof. WO 2017/194100 A1 (2017-11-16). *Chem. Abstr.* **2017**, *167*, 576825.
28. Fritz-Langhals, E.; Weidner, R.; Jutzi, P. Wacker Chemie AG, Munich, Germany. Precious metal-free hydrosilylation of unsaturated compounds catalyzed by cationic Si(II) complexes. WO 2017/174290 A1 (2017-10-12). *Chem. Abstr.* **2017**, *167*, 445041.
27. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Organosilicones having (meth)acrylate groups and a process for preparation thereof. WO 2017/036743 A1 (2017-03-09). *Chem. Abstr.* **2016**, *166*, 295220.
26. Fritz-Langhals, E.; Weidner, R. Wacker Chemie AG, Munich, Germany. Organosilicon compounds having amino acid groups, and process for preparation thereof. WO 2016/193189 A1 (2016-12-08). *Chem. Abstr.* **2016**, *166*, 28577.
25. Fritz-Langhals, E.; Popp, A. Wacker Chemie AG, Munich, Germany. Method for the preparation of amino-functional polyorganosiloxanes. WO 2016/173811 A1 (2016-11-03). *Chem. Abstr.* **2016**, *165*, 522768.
24. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Manufacture of β -aminoalkyl group-terminated polysiloxanes. WO 2016/150895 A1 (2016-09-29). *Chem. Abstr.* **2016**, *165*, 452394.
23. Fritz-Langhals, E.; Stohrer, J.; Weidner, R. Wacker Chemie AG, Munich, Germany. Amino group-containing polysiloxanes. WO 2015/197473 A1 (2015-12-30). *Chem. Abstr.* **2015**, *164*, 127423.
22. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Production of organosilicon compounds having amino groups. WO 2013/160104 A1 (2013-10-31). *Chem. Abstr.*

2013, 159, 668362.

21. Fritz-Langhals, E. Kneissl, S.; Stohrer, J. Wacker Chemie AG, Munich, Germany. Process for the production of (aminoalkyl)alkoxysilanes by amination of chloroalkylsilanes in the presence of alcohols. WO 2013/139604 A1 (2013-09-26). *Chem. Abstr.* **2013**, 159, 531878.
20. Fritz-Langhals, E. Wacker Chemie AG, Munich, Germany. Production of siloxacycles WO 2011/117072 A1 (2011-09-29). *Chem. Abstr.* **2011**, 155, 457837.
19. Daiss, J. O.; Cremer, J.; Fritz-Langhals, E.; Jungermann, S. Wacker Chemie AG, Munich, Germany. Method for producing (hydroxymethyl)polysiloxanes. WO 2011/051108 A1 (2011-05-05). *Chem. Abstr.* **2011**, 154, 540964.
18. Fritz-Langhals, E.; Stohrer, J. Wacker Chemie AG, Munich, Germany. Process for the synthesis of 1,3-bis(aminoalkyl)disiloxanes by hydrolysis of ω -silylated carbamates. WO 2010/108785 A1 (2010-09-30). *Chem. Abstr.* **2010**, 153, 456842.
17. Ochs, C.; Fritz-Langhals, E. Wacker Chemie GmbH, Munich, Germany. Production of organosilicon compounds bearing carboxy groups. WO 2005/103060 A1 (2005-11-03); *Chem. Abstr.* **2005**, 143, 441242.
16. Ochs, C.; Fritz-Langhals, E. Wacker Chemie GmbH, Munich, Germany. Production of organosilicon compounds bearing carbonyl groups. WO 2005/049697 A2 (2005-02-09); *Chem. Abstr.* **2005**, 143, 8163.
15. Fritz-Langhals, E. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Procedure for the preparation of cysteine, cysteine-analogous, their derivatives and salts. DE 10301973 A1 (2004-07-29); *Chem. Abstr.* **2004**, 141, 147089.
14. Stohrer, J.; Fritz-Langhals, E.; Brüninghaus, C. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Procedure for the production of alkynecarboxylic acids by the oxidation of alkynyl alcohols with hypohalites in the presence of a nitroxyl compound. DE 10244633 B3 (2004-02-26); *Chem. Abstr.* **2004**, 140, 199022.
13. Stohrer, J.; Fritz-Langhals, E.; Brüninghaus, C.; Stauch, D. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Process for the preparation of alkynoic acids and alkynoic acid esters of alkynols via the oxidation of alkynols. EP 1336599 A1 (2003-08-20); *Chem. Abstr.* **2003**, 139, 181969.

12. Fritz-Langhals, E.; Petersen, H.; Stohrer, J. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Preparation of aldehydes or ketones by catalytic oxidation of alcohols in the presence of nitroxyl compounds. EP 1302456 A1 (2003-04-16); *Chem. Abstr.* **2003**, *138*, 3033933.
11. Fritz-Langhals, E.; Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Cathode for electrolysis cells. EP 1179612 11 (2002-02-13); *Chem. Abstr.* **2002**, *136*, 157815.
10. Fritz-Langhals, E.; Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Preparation of cyclic N-hydroxyimides. EP 1085013 A1 (2001-03-21); *Chem. Abstr.* **2001**, *134*, 237386.
9. Amann, M.; Wohlschläger, M.; Freudenreich, J.; Stohrer, J.; Fritz-Langhals, E.; Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Multicomponent system for modifying, decomposing or bleaching lignin or lignin-containing materials and method of using this system. EP 905306 A1 (1999-03-31); *Chem. Abstr.* **1999**, *130*, 283599.
8. Fritz-Langhals, E.; Freudenreich, J.; Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Process for the preparation of aldehydes and ketones. DE 19723890 A1 (1998-12-10); *Chem. Abstr.* **1998**, *130*, 52235.
7. Amann, M.; Hecht, W.; Freudenreich, J.; Fritz-Langhals, E.; Stohrer, J. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Bleaching colored fiber products containing cellulose in the presence of oxidoreductase. DE 19723912 A1 (1998-12-10); *Chem. Abstr.* **1998**, *130*, 67749.
6. Fritz-Langhals, E.; Freudenreich, J.; Hampp, N.; Candussio, A. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Preparation of aromatic and heteroaromatic aldehydes and ketones by oxidation of alcohols in presence of a mediator. DE 19723961 A1 (1998-12-10); *Chem. Abstr.* **1998**, *130*, 38193.
5. Fritz-Langhals, E. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Preparation of optically active α -fluoroalkanoylbenzenes as liquid crystal components. DE 19521533 A1 (1996-12-19); *Chem. Abstr.* **1997**, *126*, 131246.
4. Fritz-Langhals, E. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Optically active oxygen- and sulfur-containing heterocycles, their

preparation, and their use in liquid-crystal mixtures. DE 4334235 A1 (1995-04-13); *Chem. Abstr.* **1995**, 123, 71122.

3. Fritz-Langhals, E. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Preparation of optically active (1-fluoroalkyl) benzenes. DE 4328761 A1 (1995-03-02); *Chem. Abstr.* **1993**, 122, 265018.
2. Fritz-Langhals, E. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. Preparation of optically active 2-fluorocarboxylic acids and derivatives. DE 4131242 A1 (1993-04-01); *Chem. Abstr.* **1993**, 119, 116808.
1. Fritz-Langhals, E. Preparation of optically active heterocyclic carboxylic acids. Consortium für Elektrochemische Industrie GmbH, Munich, Germany. EP 521496 A2 (1993-01-07); *Chem. Abstr.* **1993**, 118, 233881.