

Title (en)  
Method for the polishing and finishing of optical lenses.

Title (de)  
Verfahren zum Polieren und Veredeln von optischen Linsen.

Title (fr)  
Méthode pour le polissage et finissage de lentilles optiques.

Publication  
**EP 0650803 A1 19950503 (EN)**

Application  
**EP 94117033 A 19941027**

Priority  
US 14542293 A 19931029

Abstract (en)  
A method for polishing an optical quality surface, such as an ophthalmic lens, to finish which can accept a hardenable protective coating without using an abrasive slurry or gel, including the steps of: (a) providing an optical lens having a first major surface, the first major surface having an initial R<sub>tm</sub> value of greater than 0.35 micrometers; (b) bringing the first major surface into a frictional contacting relationship with an abrasive article (10), wherein the abrasive article includes a sheet-like structure having deployed on at least one major surface thereof a plurality of individual abrasive composites, each composite having a plurality of abrasive particles dispersed in a binder; and (c) moving at least one of the contacting first major surface and abrasive article relative to each other with rotational and/or oscillatory movement in the presence of a liquid substantially free of abrasive particles in a manner and for a time effective to polish the first major surface to provide a final R<sub>tm</sub> value in the first major surface of 0.30 micrometers or less. <IMAGE>

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Citation (search report)  
• [A] US 2398708 A 19460416 - HENDRIX DON O  
• [A] EP 0358383 A2 19900314 - MINNESOTA MINING & MFG [US]  
• [DA] US 4644703 A 19870224 - KACZMAREK WESLEY R [US], et al  
• [DA] US 4255164 A 19810310 - BUTZKE HILBERT C, et al

Cited by  
US5910471A; CN109483418A; US5700302A; US5855632A; EP1894672A3; EP1327496A3; CN117020936A; US5876268A; US5989111A; US6155910A; US5888119A; US6110015A; EP2353484A1; CN110177650A; US2019344395A1; US11865663B2; US8574032B2; US6932678B2; US9931733B2; WO9829217A1; WO2013149197A1; WO2011098409A1; WO2010087849A1; US6354929B1; US8580346B2; WO2018031355A1; US11112544B2; WO0013853A1; US6231629B1; US6458018B1; US6722952B2; US6179887B1; US6413287B1; WO2018109501A3

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