

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Utility Application of:  
Andreas Buthe et al.

Application No.: 12/820,063

Confirmation No.: 1458

Filed: June 21, 2010

Art Unit: 1652

For: LIPASE CONTAINING POLYMERIC  
COATINGS FOR THE FACILITATED  
REMOVAL OF FINGERPRINTS

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Examiner: Fronza, Christian L

**AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**INTRODUCTORY COMMENTS**

In response to the Office Action dated August 14, 2012, please amend the above-identified U.S. patent application as follows:

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 6 of this paper.

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of facilitating the removal of a fingerprint on a substrate or a coating comprising:

providing a substrate or a coating;

associating a lipase ~~or analogue thereof~~ with said substrate or said coating such that said lipase ~~or analogue thereof~~ is capable of enzymatically degrading a component of a fingerprint, and

facilitating the removal of a fingerprint by vaporization from the lipase associated substrate or coating when contacted by a fingerprint.

2. (Currently Amended) The method of claim 1 wherein said lipase ~~or analogue thereof~~ is covalently attached to said substrate or to said coating.

3. (Currently Amended) The method of claim 1 wherein said lipase ~~or analogue thereof~~ is non-covalently adhered to or admixed into said substrate or said coating.

4. (Currently Amended) The method of claim 1 comprising heating said substrate or said coating or applying heat to a surface of said substrate or said coating subsequent to being contacted by a fingerprint.

5. (Original) The method of claim 4 wherein said heating is for at least 30 minutes.

6. (Original) The method of claim 1 wherein said substrate or said coating comprises an organic crosslinkable polymer resin.

7. (Original) The method of claim 6 wherein said organic crosslinkable polymer resin comprises a functional group of acetoacetate, acid, amine, carboxyl, epoxy, hydroxyl, isocyanate, silane, vinyl, or combinations thereof.

8. (Original) The method of claim 6 wherein said organic crosslinkable polymer resin is aminoplasts, melamine formaldehydes, carbamates, polyurethanes, polyacrylates, epoxies, polycarbonates, alkyds, vinyls, polyamides, polyolefins, phenolic resins, polyesters, polysiloxanes, or combinations thereof.

9. (Original) The method of claim 6 wherein said organic crosslinkable polymer is a hydroxyl-functionalized acrylate resin.

10. (Currently Amended) The method of claim 1 wherein said lipase is lipoprotein lipase, acylglycerol lipase, hormone-sensitive lipase, phospholipase A1, phospholipase A2, phospholipase C, phospholipase D, phosphoinositide phospholipase C, a lysophospholipase, or galactolipase, ~~or analogue thereof.~~

11. (Original) The method of claim 1 wherein said lipase is a triacylglycerol lipase.

12. (Withdrawn) A composition for facilitating fingerprint removal comprising:  
a substrate or a coating; and  
a lipase or analogue thereof capable of degrading a fingerprint component, said lipase or analogue thereof associated with said substrate or said coating.
13. (Withdrawn) The composition of claim 12 wherein said substrate or said coating comprises an organic crosslinkable polymer resin having a functional group of acetoacetate, acid, amine, carboxyl, epoxy, hydroxyl, isocyanate, silane, vinyl, or combinations thereof.
14. (Withdrawn) The composition of claim 12 wherein said organic crosslinkable polymer resin is aminoplasts, melamine formaldehydes, carbamates, polyurethanes, polyacrylates, epoxies, polycarbonates, alkyds, vinyls, polyamides, polyolefins, phenolic resins, polyesters, polysiloxanes, or combinations thereof.
15. (Withdrawn) The composition of claim 12 wherein said organic crosslinkable polymer is a hydroxyl-functionalized acrylate resin.
16. (Withdrawn) The composition of claim 12 wherein said lipase is lipoprotein lipase, acylglycerol lipase, hormone-sensitive lipase, phospholipase  $\Lambda$ 1, phospholipase  $\Lambda$ 2, phospholipase C, phospholipase D, phosphoinositide phospholipase C, a lysophospholipase, a galactolipase, or analogue thereof.

17. (Withdrawn) The composition of claim 12 wherein said lipase is a triacylglycerol lipase.

18. (Withdrawn) The composition of claim 12 wherein said lipase or analogue thereof is covalently associated with said resin.

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