CLAIMS

1. A paraffin wax having a congealing point according to ASTM D938 of at least 100°C and a Saybolt colour according to ASTM D156 of at least 25 cm.

2. A paraffin wax according to claim 1, having a congealing point according to ASTM D938 in the range of from 100 to of 120°C.

3. A paraffin wax according to claim 1 or 2, having a congealing point according to ASTM D938 of at least 108°C.

4. A paraffin wax according to any one of claims 1 to 3, having a congealing point according to ASTM D938 of at least 110°C.

5. A paraffin wax according to any one of claims 1 to 4, having a Saybolt colour according to ASTM D156 of at least 30 cm.

6. A paraffin wax according to any one of claims 1 to 5, having an oil content according to ASTM D721 of less than 0.5 wt.%, preferably less than 0.3 wt.%, more preferably less than 0.25 wt.%.

7. A paraffin wax according to any one of claims 1 to 6, wherein the paraffin wax is a Fischer-Tropsch derived paraffin wax.

8. Process to prepare a paraffin wax according to claim 7, the process at least comprising the following steps:
(a) providing a Fischer-Tropsch product stream comprising paraffins having from 10 to 300 carbon atoms;
(b) separating the Fischer-Tropsch product stream of step (a), thereby obtaining at least a fraction comprising 10 to 17 carbon atoms and a fraction comprising 18 to 300 carbon atoms;
(c) subjecting the fraction comprising 18 to 300 carbon atoms of step (b) to a hydrogenation step, thereby obtaining a hydrogenated fraction comprising 18 to 300 carbon atoms;
(d) separating the hydrogenated fraction comprising 18 to 300 carbon atoms of step (c), thereby obtaining one or more first light waxes having a congealing point in the range of 30 to 75°C and a second heavy wax having a congealing point in the range of 75 to 120°C;
(e)separating the heavy wax of step (d) to obtain a residual wax fraction having a congealing point of at least 100°C, preferably of at least 108°C, more preferably of at least 110°C; and

~~(f) hydrofinishing the residual wax fraction of step (e) thereby obtaining a hydrofinished wax fraction having a congealing point of at least 100°C, preferably of at least 108°C, more preferably of at least 110°C.~~

~~9. Process according to claim 8, wherein the heavy wax of step is separated in step (e) by short path distillation at a pressure between 0.05 mbar and 0.5 mbar, preferably between 0.1 and 0.3 mbar.~~

1. A paraffin wax suitable for a hard wax application, the paraffin wax having a congealing point according to ASTM D938 of at least 108°C, a kinematic viscosity of at least 15 mm.sup.2/s at 120°C, and a Saybolt colour according to ASTM D156 of at least 25.

2. A paraffin wax according to claim 1, having a congealing point according to ASTM D938 of at least 110°C.

3. A paraffin wax according to claim 1, having a Saybolt colour according to ASTM D156 of at least 30.

4. A paraffin wax according to claim 1, having an oil content according to ASTM D721 of less than 0.5 wt. %.

5. A paraffin wax according to claim 1, wherein the paraffin wax is a Fischer-Tropsch derived paraffin wax.

6. A paraffin wax according to claim 1, having an oil content according to ASTM D721 of less than 0.3 wt. %.

7. A paraffin wax according to claim 1, having an oil content according to ASTM D721 of less than 0.25 wt. %.

8. A paraffin wax according to claim 1, wherein the paraffin wax is used in hard wax applications including at least one of a hot melt adhesive, a polyvinylchloride extrusion lubricant, an ink, a paint, a coating, a tire, a cosmetic, and a pharmaceutical.

9. A paraffin wax suitable for a hard wax application, the paraffin wax having a congealing point according to ASTM D938 in the range of from 100 to 120°C, a kinematic viscosity of at least 15 mm.sup.2/s at 120°C, and a Saybolt colour according to ASTM D156 of at least 30.

10. A paraffin wax according to claim 9, having a congealing point according to ASTM D938 of at least 108°C.

11. A paraffin wax according to claim 9, having a congealing point according to ASTM D938 of at least 110°C.

12. A paraffin wax according to claim 9, having an oil content according to ASTM D721 of less than 0.5 wt. %.

13. A paraffin wax according to claim 9, wherein the paraffin wax is a Fischer-Tropsch derived paraffin wax.

14. A paraffin wax according to claim 9, having an oil content according to ASTM D721 of less than 0.3 wt. %.

15. A paraffin wax according to claim 9, having an oil content according to ASTM D721 of less than 0.25 wt. %.

16. A paraffin wax according to claim 9, wherein the paraffin wax is used in hard wax applications including at least one of a hot melt adhesive, a polyvinylchloride extrusion lubricant, an ink, a paint, a coating, a tire, a cosmetic, and a pharmaceutical.