

## Builders

| Patent S.No                          | Patent No. | Priority date           | Surfactant  | Overall Claimed Composition patent   | Benefit/Advantage  |
|--------------------------------------|------------|-------------------------|---|--|--|
| <b>Builder</b>                       |            |                         |   |  |  |
| <b>Builder and Starch</b>            |            |                         |   |  |  |
| 13                                   | GB2277325A | 4/23/1993               | Non-soap detergent active   | Non-soap detergent active, detergency builder, natural starch and cationically modified starch   | Enhances stiffness of fabrics, i.e. no need for post-cleaning starch treatment   |
| 14                                   | GB2291067A | 7/15/1994               | Anionic surfactant and/or non-ionic surfactant                                | Non-soap detergent active, detergency builder, starch, clay  | Bar properties are improved, ie. rate of wear decreases and amount of mush decreases   |
| <b>Builder and Other Ingredients</b> |            |                         |   |  |  |
| 15                                   | GB2358404A | 1/24/2000               | Wide range is mentioned in general in description                             | White or light-coloured particles, visually contrasting particles comprising fluorescent material, detergent-active material, detergency builder | Give visual effects to the customer that the product has been exhausted, or insufficient product has been used, and that more should be added.       |
| 16                                   | GB2271998A | 10/27/1992              | Anionic surfactants preferred   | Non-soap detergent active material, a detergency builder and hydrotype   | Detergency cream with a relatively short duration of contact between the diluted composition and the fabric at lower pH leads to improved detergency |
| 17                                   | GB2265379A | 04/16/1992   04/14/1993 | Anionic surfactants preferred   | Non-soap surface active material, precipitating builder, lather boosting additive, humectant   | Composition has Improved lather characteristics.   |
| 18                                   | GB2385600A | 1/29/2002               | anionic sulphonate and ethoxylated non-ionic surfactant                       | aloe vera, inorganic carrier material-Sodium sulfate, polymeric binder, anionic sulphonate surfactant, non-ionic surfactant, detergency builder  | Mildness to the skin   |
| 19                                   | GB2278125A | 5/17/1993               | Anionic surfactant  | Non-soap anionic detergent active, detergency builder, inorganic filler , alcohol  | The bars show improved integrity in contact with water, thus reducing the formation of soft mush   |
| 20                                   | GB2278124A | 5/17/1993               | Anionic surfactant (alkylbenzene sulphonate and/or primary alcohol sulphate ) | Non-soap anionic detergent active, detergency builder, secondary alcohol or branched-chain primary alcohol                                       | The alcohol component reduces the formation of soft mush when the bars are left in contact with water.   |
| 21                                   | GB2276630A | 4/2/1993                | Anionic surfactant  | Non-soap anionic detergent active, detergency builder, alkoxyated nonionic detergent   | Bars give reduced mush when left standing in water   |
| 22                                   | GB2309977A | 2/12/1996               | Anionic surfactant  | Detergent active component, builder, breakage reduction agent (viscous adhesive binder and/or a plasticiser)                                     | Antibreakage properties  |
| 23                                   | GB2296920A | 1/16/1995               | Anionic surfactant  | Non soap anionic detergent active, detergency builder, betaine   | Improved skin mildness, detergency and anti-breakage properties  |