CLAIMS

1. A filter rod for ~~the~~ a smoking article comprising:

(a) a rod of filter material, and

(b) a plug wrap surrounding the rod of filter material with overlapping side edges of the plug wrap being secured together with a plug wrap adhesive comprising a disintegration accelerating agent, in which the disintegration accelerating agent comprises an enzyme.

2. A filter rod according to claim 1 wherein the enzyme is present in an amount ranging from about 1 mg to about 100 mg per gram of the plug wrap.

3. A filter rod according to claim 1 or 2 wherein the enzyme comprises a cellulase.

4. A filter rod according to claim 3 wherein the cellulase comprises at least one cellulase from *Trichoderma viride, Aspergillus niger, Sporotrichum thermophile,* or *Chaetomium cochliodes*.

5. A filter rod according to any preceding claim wherein the plug wrap adhesive comprises a hot melt adhesive.

6. A filter rod according to any preceding claim wherein the plug wrap adhesive comprises a water soluble adhesive.

7. A filter rod according to any of claims 1 to 5 wherein the plug wrap adhesive comprises a water insoluble adhesive.

8. A filter rod according to any preceding claim wherein the filter material comprises a nonwoven material such as a cellulose-based paper, a porous foam, poly(β-hydroxy butyrate co β′-hydroxy valerate), cellulose acetate fibers or a mixture thereof.

9. A filter rod according to claim 8 wherein the filter material comprises cellulose acetate fibers.

10. A filter rod according to any preceding claim in which the plug wrap has one or more rows of perforations.

~~11. A filter rod for a smoking article, comprising:~~

~~(a) a rod of filter material, and~~

~~(b) a plug wrap surrounding the rod of filter material with overlapping side edges of the plug wrap being secured together with a plug wrap adhesive,~~

~~wherein the plug wrap comprises one or more rows of perforations.~~

121. A smoking article comprising:

(a) a tobacco rod; and

(b) a filter segment attached to one end of the tobacco rod,

wherein the filter segment comprises a segment of the filter rod of any of claims 1 to 110.

132. A smoking article according to claim 12 11 further comprising a tipping paper circumscribing the filter segment and the tobacco rod and wherein the tipping paper and the plug wrap are bonded with an anchoring adhesive comprising a disintegration accelerating agent.

143. A smoking article according claim 21 12 wherein the disintegration accelerating agent comprises an enzyme.