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RICHMOND, VIRGINIA

To: Mr. K. S. Burns

Date: October 1, 1974

From: G. D. Keritsis

Subject: Evaluation Program of Sutton Research Corporation's Nontobacco Smoking Material

Mr. Briskin of Sutton Research Corporation supplied us with five patent applications concerning nontobacco smoking materials. Of these, patent application #5 (Case 135, Serial #408,655) is being evaluated.

In this application the following processing steps are described for the production of his nontobacco smoking materials.

- a. α -cellulose with 18-20% CaCO_3 sheet 8-11 mils thick.
- b. CaCl_2 , 4-6% solution is added to "a" to realize a 5% sheet weight gain.
- c. The sheet is then dried and heated at 350°C in the presence of nitrogen until 50% of the sheet weight is lost.
- d. The thermolyzed sample is then washed with warm water and dried.
- e. A casing is then applied (sprayed) on the sheet to introduce 4% glycerol, 2% potassium citrate, 4% diammonium citrate and 0.5% guar gum on the weight of the sheet.
- f. The cased material is then dried and subsequently CaCl_2 is sprayed on to introduce 4% by weight of degraded sheet.
- g. The sheet is dried and a water-insoluble CMC (acid CMC) gum is added to the sheet (6% by weight of degraded sheet).
- h. This is then dried and slit in filler form.

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