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(72) Inventors; and

(75) Inventors/Applicants (for US only): **MICINSKI, Edward** [US/US]; 601 Surrey Lane, Martinez, GA 30907 (US). **COLEMAN, David** [US/US]; 106 Pineview Circle, Daphne, Alabama 36572 (US). **WILEY, James, Edwin** [US/US]; 30298 Pine Court, Spanish Fort, AL 36527 (US).(74) Agent: **SMITH, Gyles, Darren; MARKS & CLERK LLP**, 90 Long Acre, London, WC2E 9RA (GB).

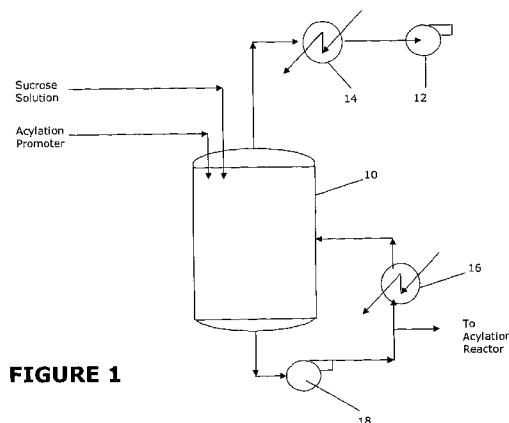
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(54) Title: LOW TEMPERATURE, SINGLE SOLVENT PROCESS FOR THE PRODUCTION OF SUCROSE-6-ESTER

**FIGURE 1**

(57) Abstract: A method for the preparation of a sucrose-6-ester is disclosed. In a first step of the method, sucrose in a polar aprotic solvent is reacted with an organotin-based acylation promoter. The water of reaction is removed at a temperature that does not exceed about 80°C. In one aspect, the water is removed by distillation of part of the polar aprotic solvent at reduced pressure. In a second step, a carboxylic acid anhydride is added. In one aspect, the resulting reaction mixture is maintained at a temperature of 100°C or less for a period of time sufficient to produce a sucrose-6-ester. The sucrose-6-ester can be converted to sucralose.