

Title (en)  
Method for continuous mercerization of polyester fibres and relative apparatus.

Title (de)  
Verfahren und Vorrichtung zum kontinuierlichen Mercerisieren von Polyesterfasern.

Title (fr)  
Procédé et appareil de mercerisage en continu de fibres polyester.

Publication  
**EP 0632155 A1 19950104 (EN)**

Application  
**EP 94108026 A 19940525**

Priority  
IT UD930130 A 19930630

Abstract (en)  
Continuous mercerisation method which is suitable to carry out mercerisation treatment of a plurality of threads (11) of polyester fibres being unwound independently, continuously and parallel to each other from one (12) or more (112-212) feeder beams, the plurality of threads (11) undergoing the following operational steps in succession: impregnation (13) by immersion in at least one tank (22) containing heated caustic soda lye; first drying (14) in an oven (31a) with a circulation of hot air; steam treatment (15); neutralisation with hot washing, the neutralisation comprising a first stage of washing in hot water (16) by immersion in at least one tank (22) containing a bath of hot water, a second stage of actual neutralisation (17) by immersion in at least one tank (22) containing acid liquor and a third stage of rinsing (18) by immersion in at least one tank (22) containing cold water; a second and final drying (19) in an oven (31b) with a circulation of hot air; the threads (11) leaving the second and final drying (19) being wound on at least one take-up beam (39). Continuous mercerisation plant which is suitable to carry out mercerisation treatment of a plurality of threads (11) of polyester fibres being unwound continuously and parallel to each other from one (12) or more (112-212) feeder beams, the plant (20) employing the above method (10) and comprising the following operational assemblies positioned in succession: an impregnation assembly (29) comprising at least one tank (22); a first drying assembly (30) comprising an oven (31a) working with hot air; a steaming assembly (34); a hot water washing assembly (35) comprising at least one tank (22); a neutralisation assembly (36) comprising at least one tank (22); a cold water rinsing assembly (37) comprising at least one tank (22); a second and final drying assembly (38) comprising an oven (31b) working with hot air; and a thread (11) take-up assembly comprising at least one take-up beam (39). <IMAGE>

IPC 1-7  
**D06B 7/04**

IPC 8 full level  
**D06B 7/04** (2006.01)

CPC (source: EP)  
**D06B 7/04** (2013.01)

Citation (search report)  
• [X] EP 0489191 A1 19920610 - CERIT SPA [IT]  
• [A] GB 2077783 A 19811223 - IVANOVSKY NII KHLOPCHATOBUM  
• [A] GB 1133899 A 19681120 - VEPA AG  
• [A] FR 2024796 A7 19700904 - VEPA AG

Cited by  
WO2014071677A1

Designated contracting state (EPC)  
CH DE ES FR IT LI

DOCDB simple family (publication)  
**EP 0632155 A1 19950104**; IT 1262155 B 19960619; IT UD930130 A0 19930630; IT UD930130 A1 19941230

DOCDB simple family (application)  
**EP 94108026 A 19940525**; IT UD930130 A 19930630