

Title (en)  
DRY CLEANING WITH ENZYMES

Title (de)  
CHEMISCHREINIGUNG MIT ENZYMEN

Title (fr)  
NETTOYAGE A SEC A L'AIDE D'ENZYMES

Publication  
**EP 0835340 B1 20020102 (EN)**

Application  
**EP 96914751 A 19960522**

Priority  
• US 9607448 W 19960522  
• US 49319595 A 19950620  
• US 54422995 A 19951017

Abstract (en)  
[origin: WO9700992A1] Enzymes are used in a dry cleaning composition and process. Cleaning compositions comprising lipase, protease and/or amylase enzymes are applied to soiled fabrics in the presence of an organic solvent such as butoxy propoxy propanol to clean the fabrics. In a preferred mode, an enzyme-containing dry cleaning composition is releasably contained in a sheet substrate. The sheet is tumbled with soiled fabrics in a conventional home clothes dryer to clean soiled garments.

IPC 1-7  
**D06L 1/00**; **D06L 1/02**; **D06L 1/04**; **C11D 3/386**; **C11D 3/20**

IPC 8 full level  
**C11D 1/83** (2006.01); **C11D 3/20** (2006.01); **C11D 3/386** (2006.01); **C11D 7/26** (2006.01); **C11D 7/42** (2006.01); **C11D 7/60** (2006.01); **C12S 11/00** (2006.01); **D06L 1/00** (2006.01); **D06L 1/02** (2006.01); **D06L 1/04** (2006.01); **C11D 1/29** (2006.01); **C11D 1/72** (2006.01); **C11D 1/75** (2006.01)

CPC (source: EP)  
**C11D 1/83** (2013.01); **C11D 3/2068** (2013.01); **C11D 3/386** (2013.01); **D06L 1/00** (2013.01); **D06L 1/02** (2013.01); **D06L 1/04** (2013.01); **C11D 1/29** (2013.01); **C11D 1/72** (2013.01); **C11D 1/75** (2013.01)

Cited by  
WO2024089070A3; US8533881B2; US10006160B2; US10724168B2

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 9700992 A1 19970109**; CN 1192791 A 19980909; DE 69618643 D1 20020228; EP 0835340 A1 19980415; EP 0835340 B1 20020102; JP H11508299 A 19990721

DOCDB simple family (application)  
**US 9607448 W 19960522**; CN 96196173 A 19960522; DE 69618643 T 19960522; EP 96914751 A 19960522; JP 50384097 A 19960522