

Title (en)
METHOD OF PROCESSING, IN PARTICULAR CONCENTRATING, FRUIT AND/OR VEGETABLE JUICE AND ARRANGEMENT FOR CARRYING OUT THIS METHOD

Title (de)
VERFAHREN ZUM VERARBEITEN, INSBESONDERE KONZENTRIEREN, VON FRUCHT- UND/ODER GEMÜSESAFT SOWIE ANLAGE ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)
PROCEDE DE TRAITEMENT, EN PARTICULIER DE CONCENTRATION DE JUS DE FRUITS ET/OU DE LEGUMES, ET DISPOSITIF POUR LA MISE EN OEUVRE DE CE PROCEDE

Publication
EP 0938267 A1 19990901 (DE)

Application
EP 97951217 A 19971117

Priority
• CH 295196 A 19961202
• EP 9706404 W 19971117

Abstract (en)
[origin: WO9824331A1] According to the invention, at least one enzyme (5) is added to a juice (3) consisting of fruit and/or vegetable juice in order to break down solids particles present in said juice. The resultant mixture (6) is clarified by at least one filtration process so that a clear, solids-free juice fraction (21) is produced which contains dissolved juice components, for example sugar, acids, vitamins and aromatic substances. The juice fraction (21) is filtered by means of a first membrane filter (32), that is a reverse osmosis filter. The resultant first retentate (33) is filtered by means of a second membrane filter (45), that is a nano filter, such that a second retentate (46) is produced. The juice fraction (21) is highly concentrated in a gentle manner by the gradual filtration processes using the two membrane filters (32, 45) at low temperatures. Formed from the second retentate (46) is a highly concentrated high-quality juice concentrate (47) which contains all the substances dissolved in the juice (3) and in the juice fraction (21) in a practically unchanged state and in at least approximately the same proportions as in the clear juice fraction (21).

IPC 1-7
A23L 2/08; **A23L 2/74**; **B01D 61/58**

IPC 8 full level
A23L 2/08 (2006.01); **A23L 2/74** (2006.01); **A23L 2/84** (2006.01); **B01D 61/02** (2006.01); **B01D 61/58** (2006.01)

CPC (source: EP US)
A23L 2/087 (2013.01 - EP); **A23L 2/74** (2013.01 - EP); **A23L 2/84** (2013.01 - EP); **B01D 61/026** (2022.08 - EP); **B01D 61/029** (2022.08 - US); **B01D 61/58** (2013.01 - EP); **B01D 61/025** (2013.01 - EP); **B01D 61/027** (2013.01 - EP)

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)
WO 9824331 A1 19980611; EP 0938267 A1 19990901

DOCDB simple family (application)
EP 9706404 W 19971117; EP 97951217 A 19971117