

Title (en)

Tobacco expansion processes and apparatus.

Title (de)

Verfahren und Vorrichtung zur Expansion des Tabaks.

Title (fr)

Procédé et appareil d'expansion du tabac.

Publication

**EP 0629352 A3 19950315 (EN)**

Application

**EP 94108982 A 19940611**

Priority

- US 7653593 A 19930614
- US 16304993 A 19931206

Abstract (en)

[origin: EP0629352A2] This invention provides tobacco expansion processes and apparatus that can be employed for expanding tobacco at rapid throughput rates employing high pressure tobacco impregnation conditions. The processes and apparatus of the invention are particularly useful in tobacco expansion processes employing cycle times of less than 20 - 30 seconds; the use of preheated, prepressurized expansion agent such as propane; preheating of tobacco batches; and/or compression of tobacco within a high pressure impregnation zone for greatly improving use of available space in a high pressure impregnation vessel. <IMAGE>

IPC 1-7

**A24B 3/18**

IPC 8 full level

**A24B 3/06** (2006.01); **A24B 3/18** (2006.01)

CPC (source: EP KR)

**A24B 3/18** (2013.01 - KR); **A24B 3/182** (2013.01 - EP)

Citation (search report)

- [DXAY] US 4554932 A 19851126 - CONRAD LUCAS J [US], et al
- [DXY] US 3683937 A 19720815 - FREDRICKSON JAMES D, et al
- [X] GB 2193076 A 19880203 - AMERICAN TOBACCO CO
- [XA] EP 0404475 A2 19901227 - REYNOLDS TOBACCO CO R [US]
- [DA] US 4531529 A 19850730 - WHITE JACKIE L [US], et al
- [DA] US 4336814 A 19820629 - SYKES LARRY M, et al

Cited by

EP1925218A1; DE102008059031A1; EP2870885A1; AU697870B2; EP0754411A3

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**EP 94108982 A 19940611**; AU 6349294 A 19940601; BG 9882094 A 19940531; BR 9402386 A 19940613; CA 2125628 A 19940610; CN 94106900 A 19940614; CZ 134894 A 19940601; FI 942810 A 19940614; HR P940353 A 19940614; HU 9401757 A 19940613; JP 15514094 A 19940614; KR 19940013573 A 19940614; NO 942209 A 19940613; PL 30382394 A 19940613; SK 69394 A 19940607; TW 83105061 A 19940603