

Title (en)

PRODUCTS COMPRISING CORN OIL AND CORN MEAL OBTAINED FROM HIGH OIL CORN

Title (de)

MAISOEL ENTHALTENDE PRODUKTE UND MAISMEHL, GEWONNEN AUS OELREICHEM MAIS

Title (fr)

PRODUITS CONTENANT DE L'HUILE ET DE LA SEMOULE DE MAIS OBTENUS A PARTIR DE MAIS A FORTE TENEUR EN HUILE

Publication

EP 1307111 A4 20050615 (EN)

Application

EP 00954043 A 20000811

Priority

- US 0022207 W 20000811
- US 63784300 A 20000810

Abstract (en)

[origin: WO0214459A2] Corn oil and corn meal obtained from high oil corn are included in useful products. The corn oil is extracted from the high oil corn to form the corn meal. The corn oil generally comprises levels of nutrients not found in commercially available corn oils, since most or all of the corn grain, rather than just the germ, is exposed to the extraction process. The corn grain generally includes the steps of flaking corn grain having a total oil content of at least about 6 wt.% and extracting a corn oil from the flaked corn grain. The corn oil is useful for making nutritionally enhanced edible oil or cooking oil, lubricants, biodiesel, fuel, cosmetics and oil-based or oil-containing chemical products. The extracted corn meal is useful for making enhanced animal feed rations, snack food, blended food products, cosmetics, and fermentation broth additive.

IPC 1-7

A23J 1/14; **C11B 1/10**; **A23K 1/16**; **A23K 1/18**; **A23D 9/00**; **A23L 1/30**

IPC 8 full level

A23K 1/18 (2006.01); **A21D 2/36** (2006.01); **A23D 9/00** (2006.01); **A23D 9/007** (2006.01); **A23D 9/02** (2006.01); **A23G 3/00** (2006.01); **A23G 3/34** (2006.01); **A23J 1/14** (2006.01); **A23K 1/00** (2006.01); **A23K 1/10** (2006.01); **A23K 1/14** (2006.01); **A23K 1/16** (2006.01); **A23K 1/175** (2006.01); **A23L 1/30** (2006.01); **A23L 7/10** (2016.01); **C10L 1/02** (2006.01); **C10L 10/08** (2006.01); **C11B 1/02** (2006.01); **C11B 1/10** (2006.01); **C11B 5/00** (2006.01); **C11C 3/00** (2006.01); **C12P 7/06** (2006.01)

CPC (source: EP US)

A23D 9/00 (2013.01 - EP); **A23K 10/30** (2016.05 - EP); **A23K 20/147** (2016.05 - EP); **A23K 20/158** (2016.05 - EP); **A23K 40/20** (2016.05 - EP US); **A23K 40/25** (2016.05 - US); **A23K 40/30** (2016.05 - EP); **A23K 50/00** (2016.05 - EP); **A23K 50/75** (2016.05 - EP); **A23K 50/80** (2016.05 - EP); **C11B 1/10** (2013.01 - EP); **Y02A 40/818** (2018.01 - EP); **Y02E 50/10** (2013.01 - EP); **Y02P 60/87** (2015.11 - EP)

Citation (search report)

- [E] WO 0047702 A1 20000817 - CARGILL INC [US], et al
- [XY] US 5706603 A 19980113 - BERGQUIST RICHARD ROBERT [US], et al
- [Y] S.H. KAPLAN: "Modified dry milling of corn grain", RESEARCH DISCLOSURE., vol. 384, no. 035, 10 April 1996 (1996-04-10), GBKENNETH MASON PUBLICATIONS, HAMPSHIRE., pages 1 - 5, XP002325907
- [X] J.M. AGUILERA ET AL.: "Laboratory and pilot solvent extraction of extruded high-oil corn", JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY., vol. 63, no. 2, 1986, AMERICAN OIL CHEMISTS' SOCIETY. CHAMPAIGN., US, pages 239 - 243, XP002199800, ISSN: 0003-021X
- See also references of WO 0213624A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0214459 A2 20020221; **WO 0214459 A3 20020822**; AR 054147 A2 20070606; AU 2000266391 A8 20020523; AU 6639100 A 20020225; AU 8325501 A 20020225; BR 0017314 A 20030708; BR 0113214 A 20030715; CN 1454056 A 20031105; CN 1468063 A 20040114; EP 1307110 A2 20030507; EP 1307111 A1 20030507; EP 1307111 A4 20050615; JP 2004505645 A 20040226; JP 2004508816 A 20040325; MX PA03001236 A 20040910; MX PA03001240 A 20040910; PE 20020306 A1 20020427; SA 00210496 B1 20070203; UY 26299 A1 20001031; WO 0213624 A1 20020221; WO 0213624 A8 20030912

DOCDB simple family (application)

US 0125055 W 20010810; AR P060102739 A 20060626; AU 6639100 A 20000811; AU 8325501 A 20010810; BR 0017314 A 20000811; BR 0113214 A 20010810; CN 00819936 A 20000811; CN 01816824 A 20010810; EP 00954043 A 20000811; EP 01962041 A 20010810; JP 2002518778 A 20000811; JP 2002519587 A 20010810; MX PA03001236 A 20010810; MX PA03001240 A 20000811; PE 0008442000 A 20000817; SA 00210496 A 20001105; US 0022207 W 20000811; UY 26299 A 20000816