

## Title (en)

COOKIE PRODUCTION WITH EXTRUSION HEAT TREATMENT AND POST EXTRUSION MIXING AND BAKING

## Publication

**EP 0476073 A4 19921104 (EN)**

## Application

**EP 90914863 A 19900607**

## Priority

- US 36247289 A 19890607
- US 36257989 A 19890607

## Abstract (en)

[origin: WO9015540A2] The present invention relates to the production of cookies which exhibit a cookie crumb-like structure and structural integrity using a cooker extruder to mix and heat ingredients comprising flour and oil to promote browning and flavor development. The heat treated mass produced in the cooker extruder is admixed with ingredients comprising water in a post extrusion mixer. The dough-like mixture produced in the post extrusion mixer is leavened and further browned using post-extrusion baking, such as microwave, dielectric radio frequency, infrared, conductive, or convection baking, frying, or a combination thereof. The shortening or fat content of the dough-like mixture may be from about 12 % by weight to about 40 % by weight, preferably from about 20 % by weight to about 30 % by weight, based upon the weight of the dough-like mixture. Separation of oil from the remaining mass and extruder surging and starch gelatinization are avoided preferably by admixing water into heat-treated ingredients comprising flour and oil after and during substantial cooling of the heat-treated ingredients. The extruder and post extrusion mixer are operated at low pressures, generally less than about 20 bars absolute, preferably less than about 10 bars absolute. The relative amount of solid, crystalline or granulated sugar, such as sucrose, subjected to the heat treatment may be used to control the tenderness and crunchiness of the final product.

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- [Y] EP 0275878 A2 19880727 - CPC INTERNATIONAL INC [US]
- [Y] EP 0195702 A1 19860924 - CLETRAL [FR]
- [A] US 4423078 A 19831227 - DARLEY KENNETH S [CA], et al
- See references of WO 9015540A2

## Designated contracting state (EPC)

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