

Title (en)  
MIXING KNEADER

Publication  
**EP 0422454 B1 19921202 (DE)**

Application  
**EP 90118626 A 19900928**

Priority  
CH 361989 A 19891004

Abstract (en)  
[origin: US5121992A] In a mixing kneader for the mechanical and/or thermal treatment of products, there is a shaft (16) arranged in a housing (1), on which shaft disk segments (21) are avoided distributed in the axial direction. In the kneading spaces (24) between the disk segments (21) there are fixed kneading counter-elements (27), which clean the disk segments (21) and shaft (16) and comprise a section (30), running close to the disk segments (21), and an arm (31), running close to the circumferential surface (37) of the shaft (16). In order that the section and the arm can give way to excessive product encrustations on the shaft, a center line (N) of the section (30) close to the disk segments (21) is to run at an inclination, in the direction of rotation (Z) of the shaft (16), corresponding to a secant through the shaft (16). Something similar also applies to the center line (O) of the arm (31) and to a leg (28) adjoining the section (30) at the other end from the arm (31). This has the effect that the formation of product bridges is also provided and the product conveyance and mixing action are improved. In addition, the mechanical stressing of the kneading element and the taking up of torque by the shaft are reduced.

IPC 1-7  
**B01F 7/04**

IPC 8 full level  
**B01F 7/04** (2006.01)

CPC (source: EP US)  
**B01F 27/707** (2022.01 - EP US)

Cited by  
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**EP 0422454 A1 19910417; EP 0422454 B1 19921202**; AT E82872 T1 19921215; CA 2026845 A1 19910405; CA 2026845 C 19941101; CH 679290 A5 19920131; DE 59000547 D1 19930114; ES 2036878 T3 19930601; US 5121992 A 19920616

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