

Title (en)
CONICAL MIXER

Title (de)
KONISCHER MISCHER

Title (fr)
MÉLANGEUR CONIQUE

Publication
EP 4180118 A1 20230517 (EN)

Application
EP 21383024 A 20211112

Priority
EP 21383024 A 20211112

Abstract (en)
The invention relates to a conical mixer of the type comprising a conical mixing container (1), wherein an endless screw (2) is mounted close to the inner wall of the same, which moves in rotation while rotating around the axis (4), supported on a horizontal arm (6), generating a vertical flow in the product that makes it possible to achieve a homogeneous mixture. Said horizontal arm (6) rests on a horizontal ring (8), located along the perimeter inside the container (1) by means of bearings (7), preventing the endless screw (2) from oscillating in the lower portion thereof and causing friction against the wall of the container (1).

IPC 8 full level
B01F 27/95 (2022.01); **B01F 27/1143** (2022.01); **B01F 27/232** (2022.01)

CPC (source: EP)
B01F 27/1143 (2022.01); **B01F 27/2324** (2022.01); **B01F 27/953** (2022.01)

Citation (applicant)

- US 2345063 A 19440328 - EWARDUS NAUTA JOHANNES
- GB 599900 A 19480323 - JOHANNES EWARDUS NAUTA

Citation (search report)

- [XAI] US 4217996 A 19800819 - GOOD LEWIS D [US]
- [XAI] CN 108636232 A 20181012 - ZHOU MEIFENG
- [XAI] GB 784469 A 19571009 - JOHANNES EWARDUS NAUTA
- [A] US 2831663 A 19580422 - EWARDUS NAUTA JOHANNES
- [A] US 2004022121 A1 20040205 - YAMAMOTO SOUICHI [JP], et al

Cited by
CN117342149A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4180118 A1 20230517; EP 4180118 B1 20240904

DOCDB simple family (application)
EP 21383024 A 20211112