

Title (en)
MACHINE FOR CLEANING AND DRYING SMALL ITEMS

Publication
EP 0388365 A3 19911227 (EN)

Application
EP 90830022 A 19900123

Priority
IT 335689 A 19890224

Abstract (en)
[origin: EP0388365A2] The machine for cleaning and/or drying metal and non-metal items comprises a drum with a sealable charge/discharge port, and a single cage in which to place the items (typically nuts and bolts); the cage is rotatable about a horizontal axis in either direction and embodied frusto-conically at least in part, its narrower end open to provide a charge/discharge port coinciding with that of the drum. The conical part of the cage, at least, is provided internally with one or more helical ribs departing from the relative port and extending the full axial length of the cone, the purpose of which being to propel the charge steadily and uniformly away from and toward the port. The solvent used for cleaning purposes is sprayed straight into the cage so as to invest the nuts and bolts directly.

IPC 1-7
B08B 3/02

IPC 8 full level
B08B 3/02 (2006.01); **B08B 3/06** (2006.01)

CPC (source: EP)
B08B 3/022 (2013.01); **B08B 3/06** (2013.01)

Citation (search report)
• [A] US 4719933 A 19880119 - JACKSON WARREN M [US]
• [A] GB 1075602 A 19670712 - TALENTI ACHILLE
• [A] US 4537669 A 19850827 - MCINNES ROBERT [US]
• [A] US 3464539 A 19690902 - KELLY FREDERICK CHRISTOPHER
• [A] WO 7900244 A1 19790503 - STEIMEL R
• [A] EP 0036952 A1 19811007 - HUBER GMBH & CO KG A [DE]

Cited by
CN113522594A; DE10225885A1; DE10311635A1; DE10311635B4; DE10164098A1; DE10164098B4; WO9601703A1; US7066187B2

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
EP 0388365 A2 19900919; EP 0388365 A3 19911227; EP 0388365 B1 19940817; DE 69011553 D1 19940922; DE 69011553 T2 19941208; IT 1233944 B 19920422; IT 8903356 A0 19890224

DOCDB simple family (application)
EP 90830022 A 19900123; DE 69011553 T 19900123; IT 335689 A 19890224