Publication
EP 0722136 A3 19960828 (EN)

Application
EP 96100107 A 19960105

Priority
- DE 19500654 A 19950112
- DE 19512835 A 19950406

Abstract (en)
[origin: EP0722136A2] Thermo-vibrator consisting of a combination of vibrator and metal block thermostat (3) for mixing and tempering samples in sample vessels (1), esp. for biochemical laboratories. Vibrator is a single pulse electromechanically driven linear vibrator. Stroke, vibration frequency and individual pulse intensity are freely adjustable. The time interval, pulse rate and pulse intensity may be manually or automatically controlled by an attached sequencer. The sample vessel holder (2), on or above the metal block thermostat (3), is driven mechanically with the sample vessels (1), independent of the vibration motion of the metal block thermostat, and may be raised or lowered manually or via a sequencer and fixed at each height.

IPC 1-7
G05D 23/19; G05D 19/00; B01L 7/00

IPC 8 full level
B01F 11/00 (2006.01); **B01L 7/00** (2006.01)

CPC (source: EP)
B01F 31/27 (2022.01); **B01F 31/275** (2022.01); **B01L 7/00** (2013.01)

Citation (search report)
- [A] US 5112134 A 19920512 - CHOW CALVIN Y H [US], et al
- [A] DE 2504269 A1 19760122 - SUOVANIEMI OSMO ANTERO
- [A] US 3944188 A 19760316 - PARKER BERNARD, et al
- [A] US 5229074 A 19930720 - HEATH WARREN J [US], et al

Cited by
DE10243209A1; CN109621799A; US8202702B2; US10118177B2; WO2004053446A1; US8658349B2; US10359418B2; US7638321B2; US7276351B2; US7851201B2; US8697431B2

Designated contracting state (EPC)
AT CH FR GB LI SE

DOCDB simple family (publication)
EP 0722136 A2 19960717; **EP 0722136 A3 19960828**

DOCDB simple family (application)
EP 96100107 A 19960105