

Title (en)
Therapeutic device

Title (de)
Therapiegerät

Title (fr)
Dispositif thérapeutique

Publication
EP 0856334 A3 19990512 (EN)

Application
EP 97310327 A 19971219

Priority
GB 9626446 A 19961220

Abstract (en)
[origin: EP0856334A2] A visual stimulation device for assisting in the lowering of a user's breathing rate by means of displaying a cyclical graphic representation on a display (6) comprising a grid of light emitting diodes (14). The representation comprises a bar graph adjacent bars of which are illuminated sequentially during a first display corresponding to user inhalation and extinguished during a second display corresponding to user exhalation. A third display corresponding to a rest period between inhalation and exhalation may also be provided. The display is controlled by circuitry (18) including a first circuit (27) which computes the user's rest breathing rate from data input by the user in a relaxed state and a further circuit containing display duration ratio information. The duration ratio of the first to the second to the third displays is substantially 40%; 50%; 10% and the display cycle corresponds to the user's rest breathing rate in breaths per minute minus one. <IMAGE>

IPC 1-7
A63B 23/18

IPC 8 full level
A63B 23/18 (2006.01)

CPC (source: EP)
A63B 23/185 (2013.01)

Citation (search report)
• [XY] US 3424147 A 19690128 - GIORDANO ETIENNE
• [XY] GB 935766 A 19630904 - ETIENNE GIORDANO
• [X] FR 2599629 A1 19871211 - BRUEY SA ELECTRO MECA PRECISIO [FR]
• [A] WO 9414374 A1 19940707 - DEFARES PETER BERNARD [NL], et al

Cited by
EP2022541A1; DE102009007934A1; EP1690493A1; EP1538970A4; US9642557B2; US11690530B2; US10531827B2; US10576355B2; WO2020146251A1; WO0119245A1; WO0059580A1; WO2020146259A1; US6436053B1; US6740046B2; US8183453B2; US10314535B2; US11617917B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0856334 A2 19980805; EP 0856334 A3 19990512; GB 9626446 D0 19970205

DOCDB simple family (application)
EP 97310327 A 19971219; GB 9626446 A 19961220