

Title (en)
SYSTEM AND METHOD FOR SEGREGATING DIAMONDS

Title (de)
SYSTEM UND VERFAHREN ZUR TRENNUNG VON DIAMANTEN

Title (fr)
SYSTÈME ET PROCÉDÉ DE SÉGRÉGATION DE DIAMANTS

Publication
EP 2720810 A4 20141203 (EN)

Application
EP 12800274 A 20120615

Priority
• IN 2041CH2011 A 20110615
• IN 2012000431 W 20120615

Abstract (en)
[origin: WO2012172573A2] A system (100) for segregating diamonds includes a feeder assembly (102), a camera (302a), a lighting system (302b) and a rotary and binning mechanism (202). The feeder assembly (102) has a vibratory bowl (103). The vibratory bowl (103) is connected to a vibrator mechanism (not shown). The vibrator mechanism is adapted to vibrate the bowl (103). The vibratory bowl (103) is essentially a container adapted to receive diamonds therein. The feeder assembly (102) has a linear feeder (105) which connects the vibratory bowl (103) and the rotary and binning mechanism (202). A camera (302a) and a lighting system (302b) are provided near the second end (105b) of the linear feeder (105). A process for segregating the diamonds by using the system (100) include obtaining the user requirement and electronically storing the user requirement in a guide card which is fed into a computer (402) connected to system (100) for segregation.

IPC 8 full level
B07C 5/342 (2006.01)

CPC (source: EP)
B07C 5/3425 (2013.01)

Citation (search report)
• [X] WO 8701975 A1 19870409 - CRA SERVICES [AU]
• [X] WO 2011037481 A1 20110331 - ETERNITY MFG LTD [CN], et al
• See references of WO 2012172573A2

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

DOCDB simple family (publication)
WO 2012172573 A2 20121220; WO 2012172573 A3 20130328; CN 104023862 A 20140903; CN 104023862 B 20160921;
EP 2720810 A2 20140423; EP 2720810 A4 20141203

DOCDB simple family (application)
IN 2012000431 W 20120615; CN 201280039695 A 20120615; EP 12800274 A 20120615