

Title (en)
A cut diamond

Title (de)
Geschliffener Diamant

Title (fr)
Diamant taillé

Publication
EP 2179672 A1 20100428 (EN)

Application
EP 08018467 A 20081022

Priority
EP 08018467 A 20081022

Abstract (en)
A cut diamond (11), characterized in that it is a convex polyhedron and has eighty-nine facets, which are thirty-two facets more than a traditional ideal-cut brilliant (1), in particular eight extra facets on the crown (2) by substituting each of the eight kite facets (6) of a traditional ideal-cut brilliant diamond (1) by two triangular facets, namely a table break facet (12) and a girdle break facet (13), which have a common edge namely the girdle break which lies in a plane parallel to the table (5), and whereby twenty-four of the thirty-two extra facets are added in the pavilion (3) by substituting each of the eight lower main facets (10) of a traditional ideal-cut brilliant (1) with four facets, namely a bottom star pavilion (14), two bottom star halves (15), and bottom girdle pavilion (16), touching each other in a point, namely the meeting point, and whereby the pavilion height is approximately three percent longer than the pavilion height in the corresponding traditional ideal-cut brilliant (1).

IPC 8 full level
A44C 17/00 (2006.01)

CPC (source: EP)
A44C 17/001 (2013.01)

Citation (search report)
• [A] US 2006086143 A1 20060427 - BIRO EUGENE [US]
• [A] EP 1181875 A2 20020227 - HOHOEMI BRAINS INC [JP]
• [A] WO 2006085645 A1 20060817 - CRANE KK [JP], et al
• [A] US 2005252241 A1 20051117 - OSTER ISRAEL [US]
• [A] BE 1013545 A3 20020305 - TOLKOWSKY GABRIEL S [BE]
• [A] CH 436812 A 19670531 - HUISMAN JAMES [US], et al

Cited by
US11234499B2; US2016353847A1; US2016166021A1; US2022202150A1; US10849394B2; US11191328B2; US10271621B2; US2017231336A1; US2019274399A1; US11103035B2; US2021361039A1; CN114532678A; EP2505096A1; AT12644U1; WO2018061157A1; WO2012156336A1; US11553769B2; US11559121B2

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

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2179672 A1 20100428; EP 2179672 B1 20120404; AT E551920 T1 20120415; CN 101721021 A 20100609; CN 101721021 B 20131225

DOCDB simple family (application)
EP 08018467 A 20081022; AT 08018467 T 20081022; CN 200910180948 A 20091022