

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges

Eigentum
Internationales Büro

(43) Internationales
Veröffentlichungsdatum
17. April 2014 (17.04.2014)



(10) Internationale Veröffentlichungsnummer

WO 2014/056476 A1

(51) Internationale Patentklassifikation:

G02B 7/182 (2006.01) G02B 26/10 (2006.01)
F41H 13/00 (2006.01) G01S 17/02 (2006.01)

(21) Internationales Aktenzeichen: PCT/DE2013/000578

(22) Internationales Anmeldedatum:
9. Oktober 2013 (09.10.2013)

(25) Einreichungssprache: Deutsch

(26) Veröffentlichungssprache: Deutsch

(30) Angaben zur Priorität:
10 2012 019 940.6
11. Oktober 2012 (11.10.2012) DE

(71) Anmelder: MBDA DEUTSCHLAND GMBH [DE/DE];
Hagenauer Forst 27, 86529 Schrobenhausen (DE).

(72) Erfinder: PROTZ, Rudolf; Rosenstrasse 7, 85635
Höhenkirchen-Siegersbrunn (DE).

BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,
ZW.

(84) Bestimmungsstaaten (soweit nicht anders angegeben, für
jede verfügbare regionale Schutzrechtsart): ARIPO (BW,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ,
TZ, UG, ZM, ZW), eurasisches (AM, AZ, BY, KG, KZ,
RU, TJ, TM), europäisches (AL, AT, BE, BG, CH, CY,
CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT,
LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Veröffentlicht:

— mit internationalem Recherchenbericht (Artikel 21 Absatz
3)

(54) Title: LASER BEAM DIRECTING SYSTEM AND METHOD FOR ORIENTING OPTICAL COMPONENTS OF THE
LASER BEAM DIRECTING SYSTEM

(54) Bezeichnung : LASERSTRAHLRICHTSYSTEM UND VERFAHREN ZUR AUSRICHTUNG VON
OPTIKKOMPONENTEN DES LASERSTRAHLRICHTSYSTEMS

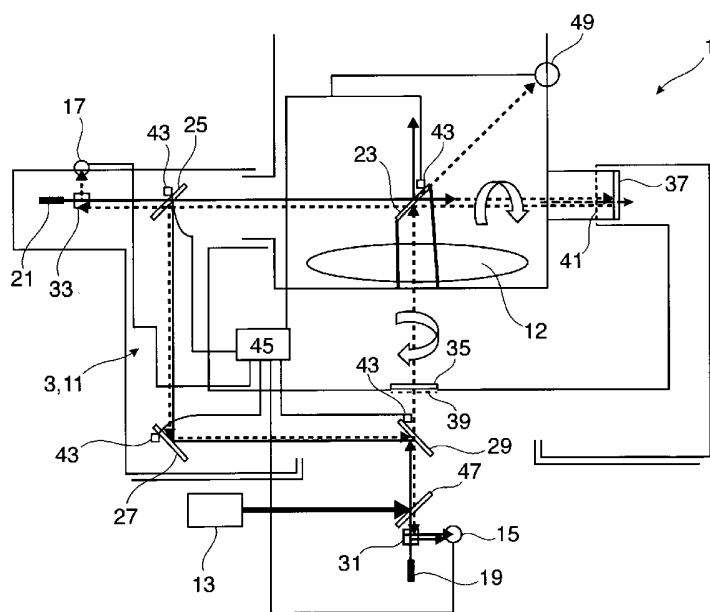


Fig. 2

(57) Abstract: The invention relates to a laser
beam directing system (1) and to a corresponding
method for orienting optical components (23, 25,
27, 29) of the laser beam directing system (1).
The laser beam directing system (1) comprises a
first deflection mirror (23), which is connected to
an elevation axis of the laser beam directing
system (1). In addition, the laser beam directing
system (1) comprises a main laser (13), which
can be coupled via the first deflection mirror (23)
into a telescope lens (12). Furthermore, the laser
beam directing system (1) comprises a first
auxiliary laser (19) and a second auxiliary laser
(21). The first auxiliary laser (19) is oriented
parallel to a rotational azimuth axis of the laser
beam directing system (1). The second auxiliary
laser (21) is oriented parallel to a rotational
elevation axis of the laser beam directing system
(1). In addition, the laser beam directing system
(1) comprises a first detector (15). The first
auxiliary laser (19), the second auxiliary laser
(21) and the first detector (15) are arranged and
oriented in the laser beam directing system (1) in
such a manner that by comparing the beams of
the first auxiliary laser (19) and of the second
auxiliary laser (21) incident upon the first

detector (15) the first deflection mirror (23) can be oriented in such a manner that a main laser beam (13) can be coupled parallel to
the rotational elevation axis into the telescope lens (12).

(57) Zusammenfassung:

[Fortsetzung auf der nächsten Seite]