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(81) Designated States (unless otherwise indicated, for every kind of national protection available):

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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.

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(54) Title: WELDING ARC APPAREL WITH UV ACTIVATED IMAGES AND METHOD FOR DETECTING UV RADIATION

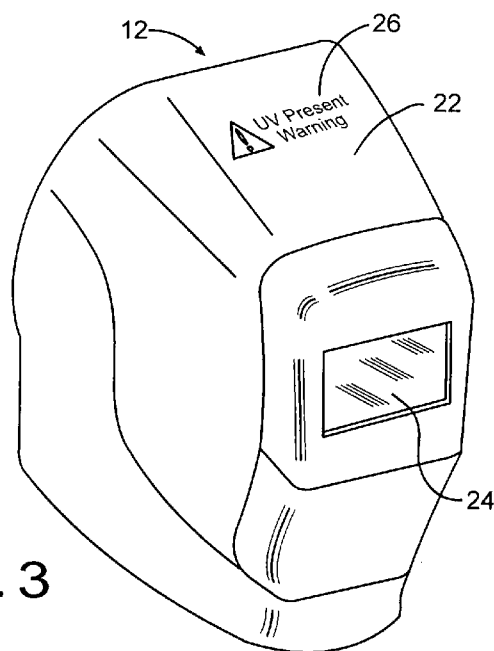


FIG. 3

(57) Abstract: A welding accessory (12, 30, 40) and a system for detecting UV radiation exposure during welding operations are disclosed. The welding accessory may have a surface exposed to UV radiation generated by electric arc welding, a first image visible without exposure to the UV radiation, and a second image formed from UV activated dye that is visible only after exposure to UV radiation generated by the electric welding arc. A system may include a UV exposure indicator with a first state and at least a second state, and include UV activated dye adapted to provide a reversible or persistent visual indication upon exposure to UV radiation. The visual indication may include any combination of symbols, logos, images, text, or other decorative or informational designs as desired.



**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. B23K9/32 A61F9/06 F16P1/06 G01J1/42  
 ADD.  
 According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**  
 Minimum documentation searched (classification system followed by classification symbols)  
 B23K A61F F16P G01J  
 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
 EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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Y	* abstract; figures -----	6-15
X	US 3 597 054 A (WINTER PETER MCGOWIN) 3 August 1971 (1971-08-03) * abstract; figures -----	1-5
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X	CN 201 323 898 Y (ZHANG YI [CN]) 14 October 2009 (2009-10-14) Abstract from <a href="http://ip.com/patent/CN201323898Yfigures">http://ip.com/patent/CN201323898Yfigures</a> -----	1,6,15
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Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

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Date of the actual completion of the international search  30 March 2011	Date of mailing of the international search report  15/04/2011
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 731 589 A (SIEF ROLF [DE] ET AL) 24 March 1998 (1998-03-24) column 1, line 23 - line 7; figures column 4, line 6 - column 6, line 9 -----	6-15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2010/002908

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