

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stefan Dementrescu
Docket No.: 16.001
Serial No.: Not Assigned
For: Motion Picture Film Scanner with Automated Failed Splice Recovery
Filed: Herewith

Pre-Examination Search Document

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This pre-examination search statement is provided in support of the petition for accelerated examination filed herewith.

A pre-examination search was conducted involving U.S. patents and patent application publications, foreign patent documents and non-patent literature as indicated below. The results of the search are provided on an Information Disclosure Statement filed concurrently herewith.

8 (A) Pre-examination Search

1. US Field of Search:

Classes/Subclasses Searched:

348/96-100, 102, 105, 107, 130, E03.002-004, E05.049, E09.009;
352/38, 104, 119, 124, 129-131, 156, 166, 169, 242, 244;
353/21, 25, 26A, 26R, 76;
360/3;
386/230*

Dates Conducted: April 22-25, 2013, May 22-29, 2013, & Sept. 1-2, 2013.
*386/230 limited to the full-text string: (film scanner" or ("motion picture"
pre/2 scanner)

2. CPC Field of Search:

G11B27/06, 11*, 031**, 034**;
H04N3/36, 38, 40, 253;
H04N9/11*

Dates Conducted: April 22-25, 2013 & Sept. 1, 2013.
*H04N9/11 and G11B27/11 limited to the full text string ("splice failure"
or "film break" or "film breakage" or "splicing station" or "splicing table"
or "splice table" or splicer or "splice station").
** G11B27/031 and 034 limited to the full text string ("film scanner" or
("motion picture" pre/2 scanner)

3. EPC Field of Search:

H04N3/36, H04N3/38;
H04N5/253;
G11B27/06, G03D15/04

Dates Conducted: May 22-29, 2013.

4. Database Searches:

1) Database Service: LexisNexis TotalPatent

Files Searched:

U.S. Granted Patents: 1836 – present, full-text

U.S. Published Patent Applications: 2001 – present, full-text

European Granted Patents (EP): 1980 – present, full-text

European Patent Applications (EP): 1978 – present, full-text

WIPO Published Applications (WO): 1978 – present, full-text

Japan Granted Patents (JP): 1994 – present, full-text

Japan Patent Applications (JP): 1989 – present, full-text

Germany Granted Patents (DE): 1852 – present, full-text

Germany Patent Applications (DE): 1957 – present, full-text

France Granted Patents (FR): 1902 – present, full-text

France Patent Applications (FR): 1902 – present, full-text

Great Britain Granted Patents (GB): 1916 – present, full-text

Great Britain Patent Applications (GB): 1855 – present, full-text

Canada Granted Patents (CA): 1973 – present, full-text

Canada Patent Applications (CA): 1920 – present, full-text

China Granted Patents (CN): 1993 – present, full-text

China Patent Applications (CN): 1985 – present, full-text

Russian Federation Granted Patents (RU): 1993 – present, full-text

Russian Federation Patent Applications (RU): 1996 – present, full-text

Additional full-text search authorities: AT, AU, BE, BR, CH, DD, DK, EA (applications only), ES, FI, IE, IN (granted patents only), IT, LU (applications only), MC (applications only), MX, NL, PT, SE, SU (applications only)

Search Logic:

- L1 full-text("motion picture scanner" or "motion picture film scanner")
hit count: 50 reviewed: 50
- L2 full-text("motion picture film" pre/2 scan!)
hit count: 148 reviewed: 148
- L3 full-text(digital intermediate process")
hit count: 26 reviewed: 26
- L4 full-text("digital intermediate" pre/2 scan!)
hit count: 2 reviewed: 2
- L5 full-text((DI pre/2 scan!) and "motion picture")
hit count: 8 reviewed: 8
- L6 full-text("motion picture film" pre/2 digitiz!)
hit count: 8 reviewed: 8
- L7 full-text("motion picture" w/3 edit!)
hit count: 929 reviewed: 200
- L8 abstract("motion picture" and scan! and splic!) or title("motion picture" and scan! and splic!)
hit count: 0 reviewed: 0
- L9 abstract("film" and scan! and splic!) or title("film" and scan! and splic!)
hit count: 39 reviewed: 39
- L10 full-text(((("motion picture" pre/2 scanner) or "film scanner"))) and ("splice failure" or "film break" or "film breakage" or "splicing

station" or "splicing table" or "splice table" or splicer or "splice station"))

hit count: 45 reviewed: 45

L11 full-text(("motion picture film" w/2 scan!) and (broken w/2 splic!))

hit count: 0 reviewed: 0

L12 full-text(("motion picture" w/3 scan!) and (broken w/2 splic!))

hit count: 0 reviewed: 0

L13 full-text(("motion picture" pre/3 scan!) and splic!)

hit count: 8 reviewed: 8

L14 full-text((film pre/3 scan!) and splic! and "motion picture")

hit count: 108 reviewed: 108

L15 full-text(scan and splic! and ("motion picture" pre/1 film))

hit count: 280 reviewed: 280

L16 full-text(digitize and splic! and ("motion picture" pre/1 film))

hit count: 78 reviewed: 78

L17 abstract(film and "motion picture" and archive and scan) and

title(film and "motion picture" and archive and scan))

hit count: 0 reviewed: 0

L18 full-text(film and "motion picture" and archive and scan!)

hit count: 959 reviewed: 0

L19 full-text(((film pre/2 scan!) or ("motion picture" pre/2 scan!)) and archive)

hit count: 1233 reviewed: 0

- L20 full-text("motion picture" pre/2 scan!)) and archive)
hit count: 12 reviewed: 12
- L21 full-text(film pre/3 "splicing station")
hit count: 44 reviewed: 44
- L22 full-text(("motion picture" pre/2 film) and ("splicing station" or
"splicing table" or "splice station" or "splice table"))
hit count: 13 reviewed: 13
- L23 full-text("motion picture" and ("splicing station" or splicing table"))
hit count: 30 reviewed: 30
- L24 full-text(("motion picture" or video or film) w/s ("frame
identification" or "frame matching"))
hit count: 535 reviewed: 0
- L25 abstract(("motion picture" or video or film) and ("frame
identification" or "frame matching"))
hit count: 92 reviewed: 92
- L26 full-text("motion picture" w/3 (archiv! or preserv! or restoration))
hit count: 285 reviewed: 100
- L27 full-text(("motion picture" w/3 (archiv! or preserv! or restoration))
and splice)
hit count: 9 reviewed: 9
- L28 full-text(("film scanner" or "motion picture scanner" or "film
digitizer" or "motion picture digitizer") and "automatic splice
repair")
hit count: 0 reviewed: 0

- L29 full-text(("film scanner" or "motion picture scanner" or "film digitizer" or "motion picture digitizer") and ((broken or failed) w/2 splice))
hit count: 2 reviewed: 2
- L30 abstract(telecine) or title(telecine)
hit count: 606 reviewed: 0
- L31 full-text((abstract(telecine) or title(telecine)) and ((splic! or edit!) w/2 (station or table)))
hit count: 4 reviewed: 4
- L32 full-text(telecine and ((splic! or edit!) w/2 (station or table)))
hit count: 45 reviewed: 45
- L33 citation(5671008) and citation-auth("us")
hit count: 16 reviewed: 16
- L34 forward-cites(5671008) and citation- auth("us")
hit count: 19 reviewed: 19
- L35 forward-cites(20020051218) and citation- auth("us")
hit count: 0 reviewed: 0
- L36 citation(20020051218) and citation- auth("us")
hit count: 2 reviewed: 2
- L37 citation(4524392) and citation-auth("us")
hit count: 12 reviewed: 12
- L38 citation(5841512) and citation-auth("us")
hit count: 20 reviewed: 20

- L39 forward-cites(5841512) and citation- auth("us")
hit count: 19 reviewed: 19
- L40 citation(2794488) and citation-auth("us")
hit count: 5 reviewed: 5
- L41 citation(2794490) and citation-auth("us")
hit count: 4 reviewed: 4
- L42 citation(20130076890) and citation-auth("us")
hit count: 0 reviewed: 0
- L43 forward-cites(20130076890) and citation-auth("us")
hit count: 0 reviewed: 0
- L44 citation(2013043593) and citation-auth("wo")
hit count: 0 reviewed: 0
- L45 forward-cites(2013043593) and citation-auth("wo")
hit count: 0 reviewed: 0
- L46 assignee("Filmlight Limited" or or "Filmlight Ltd")
hit count: 5 reviewed: 5
- L47 assignee("MWA Nova")
hit count: 1 reviewed: 1
- L48 Assignee(Dft Digital Film Technology)
hit count: 8 reviewed: 8
- L49 assignee("Grass Valley (U.S.)" or "Grass Valley Group")
hit count: 195 reviewed: 0
- L50 assignee("Grass Valley (U.S.)" or "Grass Valley Group") and scan!
hit count: 63 reviewed: 63

- L51 assignee(cintel)
hit count: 349 reviewed: 349
- L52 assignee(cintel) and (film pre/2 scan!)
hit count: 64 reviewed: 64
- L53 assignee(Goldeneye)
hit count: 59 reviewed: 59
- L54 assignee("Digital Vision AB")
hit count: 4 reviewed: 4
- L55 assignee("Arri Cine")
hit count: 21 reviewed: 21
- L56 assignee(Technik)
hit count: 1513 reviewed: 0
- L57 assignee(Technik) and "motion picture"
hit count: 89 reviewed: 89
- L58 assignee(Imagica)
hit count: 23 reviewed: 23
- L59 assignee(Kodak) and "motion picture" and scanner and splice
hit count: 20 reviewed: 20
- L60 assignee(Thomson Broadcast) and "motion picture"
hit count: 5 reviewed: 5
- L61 assignee(Thomson) and "motion picture" and scanner
hit count: 71 reviewed: 71

- L62 assignee(Image Trends)
hit count: 3 reviewed: 3
- L63 assignee(Pandora International)
hit count: 29 reviewed: 29
- L64 assignee(Research Technology International)
hit count: 4 reviewed: 4
- L65 assignee(Scanity)
hit count: 0 reviewed: 0
- L66 inventor(Darren w/2 Walde)
hit count: 1 reviewed: 1
- L67 applicant-name(Reed W/2 Bovee)

LexisTotal Patent Search String Key:

full-text() = searches the patent document full-text for the enclosed string.

abstract()= searches the patent docket abstract for the enclosed string.

title()= searches the patent docket title for the enclosed string.

assignee()= searches the assignee field of the patent document

inventor()= searches the inventor field of the patent document

applicant-name()= searches the applicant field of the patent document

forward-cites()= find patent documents that forward cite the enclosed patent document number. Equivalent to a backward citation search.

citation()= finds patent documents that reference the enclosed patent document number. This is equivalent to a forward citation search.

citation-auth()= indicates the patent authority that the number in citation() or forward-cites() references.

w/n = word or phrase before and after operator are within "n" number of words of each other regardless of order.

w/s = word or phrase before and after operator are within the same sentence of each other regardless of order.

pre/n= word or phrase before the operator occurs within "n" words before the words or phrases after the operator.

! = wildcard operator, any number of characters.

Date Conducted: April 22-25, 2013, & Sept. 1, 2013

2) Database Service: ProQuest

Files Searched:

(Non-Patent Literature) ABI/INFORM Trade and Industry, Discovery, Gold Periodicals, National Newspaper Abstracts, Platinum Periodicals, ProQuest Newspapers

Search Logic:

- S1 "motion picture" PRE/2 scanner
- S2 "motion picture" AND film AND scanner
- S3 "motion picture" AND film AND scanner AND ("splice failure" OR "film break" OR "film breakage" OR "splicing station" OR "splicing table" OR "splice table" OR splicer OR "splice station")
- S4 ("motion picture scanner" OR "film scanner") AND ("splice failure" OR "film break" OR "film breakage" OR "splicing station" OR "splicing table" OR "splice table" OR splicer OR "splice station")
- S5 "motion picture" AND restoration AND ("splice failure" OR "film break" OR "film breakage" OR "splicing station" OR "splicing table" OR "splice table" OR splicer OR "splice station")
- S6 (movie or "motion picture" or film) AND ("splice detect" OR "splice repair")
- S7 (movie OR "motion picture" OR film) AND (splice NEAR/3 repair OR splice NEAR/3 detect)

Date Conducted: April 24, 2013 & Sept. 2, 2013

ProQuest Search Key:

PRE/n = precedes the next word after the operator by "n" words.

NEAR/n = within "n" words

3) Database Service: Thompson Gale

File Searched: General OneFile: 71,000 full text periodicals, Academic ASAP: over 3000 peer reviewed journals; General Reference Gold: over 5000 full text periodicals.

Search Logic:

- S1 ("film restoration" OR "film archive") AND (scanner OR digitizer)
- S2 ("film restoration" OR "film archive") AND (scan OR digitize)
- S3 "motion picture film scanner"
- S4 motion picture" AND "film scanner"
- S5 "automatic splice repair" AND "motion picture"
- S6 "splice repair" AND "motion picture"
- S7 "motion picture" AND scanner
- S8 "motion picture" AND film AND scanner AND ("splice failure" OR "film break")
- S9 ("motion picture scanner" OR "film scanner") AND ("splice failure" OR "film break" OR "film breakage")

Date Conducted: April 24, 2013.

4) Database Service: Google

Files Searched: Google

Search Logic:

- S1 "automatic failed splice recovery"
- S2 "motion picture" scanner splice recovery
- S3 "motion picture film scanner" and splicing

- S4 "motion picture scanner" and splicing
- S5 "film scanner" and splicing
- S6 Walde FilmStar Auto- Splicer De-Splicer
- S7 site: walde.com auto splicer
- S8 P+S Technik "Digital Splice Repair"
- S9 "motion picture film scanner" automatic splice repair
- S10 "film scanner" "automatic splice repair"
- S11 "film scanner" automatic splice repair
- S12 "film scanner" AND (automatic AROUND(1) "splice repair")
- S13 "motion picture film digitizing" automatic splice repair
- S14 "film scanning" AND (automatic AROUND(2) "splice repair")
- S15 "DaVinci Revival"
- S16 "film archiving" AND (scanner OR digitizer) AND "splice repair"
- S17 "film restoration" AND (scanner OR digitizer) AND "splice repair"
- S18 (motion picture AROUND(2) (restoration OR archive)) AND (scanner OR digitizer) AND "splice repair"
- S19 "motion picture film scanner" AND ("splice station" OR "splice table" OR "splicing table" OR "splicing station")
- S20 "digital telecine"
- S21 "digital telecine" and splice

- S22 "digital intermediate"
- S23 "digital intermediate" AND "automatic splice repair"
- S24 "digital intermediate" AND "splice repair"
- S25 "digital intermediate" AROUND(30) ("splice station" OR "splice table")
- S26 "digital intermediate" AND ("splice table" OR "splice station")
- S27 "motion picture scanner" AND ("splice station" OR "splice table" OR "splicing table" OR "splicing station")
- S28 "film scanner" AND ("splice station" OR "splice table" OR "splicing table" OR "splicing station")
- S29 "film scanner" AROUND(30) ("splice station" OR "splice table" OR "splicing table" OR "splicing station")
- S30 site:www.cir-srl.com
- S31 site:www.aaton.com "splice detection"
- S32 "image matching" AND "motion picture film"
- S33 "cross correlation"
- S34 "cross correlation" AND "image matching"
- S35 histogram AND "image matching"

Date Conducted: April 21-25, 2013, Aug. 28, 2013, & Sept. 1, 2013

Google Search String Key:

Around(X) is an undocumented proximity operator.
site: searches only the URL that follows the colon.

5) Database Service: Networked Digital Library of Theses and Disertations
(NDLTD)

Files Searched: Elsevier SCIRUS ETD

Search Logic:

S1 ("film restoration" OR "film archive") AND (scanner OR digitizer)

S2 ("film restoration" OR "film archive") AND (scan OR digitize)

S3 "motion picture film scanner"

S4 "motion picture" AND "film scanner"

S5 "motion picture" AND film AND scanner

S6 "automatic splice repair" AND "motion picture"

S7 "splice repair" AND "motion picture"

S8 "splice repair" AND film

S9 "image matching" AND ("motion picture" OR film OR movie)

Date Conducted: April 22-25, 2013 & Sept. 1, 2013.

6) Google Scholar

S1 digital splice repair (film OR movie)

S2 ((video OR movie OR film OR audio) AROUND(2) (restoration

- OR repair OR archival OR splice OR break))
- S3 UCLA film archive restoration repair splice
 - S4 USC film archive restoration repair +splice (equipment OR machine)
 - S5 splice-repair (film OR video OR audio OR movie) AROUND (archive OR restoration)
 - S6 +splice (film OR video OR audio OR movie) AROUND (archive OR restoration)
 - S7 splice repair (DaVinci OR Rank-Turbo OR Rank-Cintel)
 - S8 film restoration, integrated splicing station
 - S9 MOMA film restoration
 - S10 (restoration OR archival) (film OR movie OR video OR audio) splices
 - S11 "image matching" AND histogram
 - S12 "image matching" AND ("cross correlation" OR cross-correlation)
 - S13 "image matching" AND ("motion picture" OR video)
 - S14 "image matching" AND ("motion picture" OR film OR movie)

Date Conducted: May 22-29, 2013 & Sept. 1, 2013

Google Scholar Search String Key:

Around(X) is an undocumented proximity operator.

8(B) Search Directed to the Invention

The pre-examination search was directed to the claimed invention, encompassing all the features of the claims and giving the claims their broadest reasonable interpretation.

8(C) Search Directed to the Disclosure

No disclosed features that are unclaimed at this time are currently seen as features that may be claimed later during accelerated examination of the present application filed herewith.

8(D) Search Report from a Foreign Patent Office

No search report from a foreign patent office is provided here as the pre-examination search.

8(E) Statement of Good Faith

All statements above in support of the petition to make special are based on a good faith belief that the search was conducted in compliance with the requirements of this rule.

Respectfully Submitted,

/Alan M. Flum/

Alan M. Flum, Reg. 64,843

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September 2, 2013