



Key information

<i>Database last updated</i>	2020.07.04 13:34:00
Description / title	Anordning og system for tilveiebringelse av økt operasjonssikkerhet for instrumenteringssløyfesystem
Status	In force
Legal status	2011.01.17 Granted
Detailed status	2013.07.11 Granted (B1)
Patent number	329859
Application number	20083912
Filed	2008.09.12
Priority	None
Case type	National
Effective date	2008.09.12
Expiry date	2028.09.12
Publicly available	2010.03.15
Granted	2011.01.17
Applicant	Autronica Fire and Security AS (NO)
Owner	Autronica Fire and Security AS (NO)
Inventor	Øyvind Teig (NO)
Agent	ZACCO NORWAY AS (NO)
Patent family	Look up in Espacenet

Abstract and drawing

 Patent Translation picture

Den foreliggende oppfinnelse tilveiebringer redundans i instrumenteringsløyfe-systemer, slik som røyk- og branndeteksjonssystemer uten noen duplisering av sikkerhetsanordninger, instrumenteringsanordninger, røykdetektorer eller styreenheter. En sløyfeanordning i henhold til den foreliggende oppfinnelse tilveiebringer et grensesnitt for fysiske kommunikasjonsseksjoner hos sløyfen og en kommunikasjonsprotokoll for sløyfesystemet.

[View the abstract and front page figure in Espacenet](#)

Classes

IPC class

H04L 12/437

G08B 29/02

G05B 9/03

G08B 26/00

Applicant(s)

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Org. number: 982702887

Your reference: P60802765NO00/GMI/HBA

Citations (cited documents)

US 2005/0068710 A1 ()

- ()

EP 1892687 A1 ()

- ()

EP 1538580 A1 ()

WO 95/24087 A1 ()

GB 2442359 A ()

Case history

Status history

Legal status	Decision date, detailed status
2011.01.17 Granted	2013.07.11 Granted (B1)
2012.09.30 Ceased	2013.04.15 Non-payment of annual fee
2011.01.17 Granted	2011.01.07 Granted (B1)
2008.09.12 Pending	2010.08.30 Accepted for grant
2008.09.12 Pending	2010.08.24 Second and later letter exists
2008.09.12 Pending	2009.12.07 Second and later letter exists
2008.09.12 Pending	2009.06.26 First letter of examination exists
2008.09.12 Pending	2009.06.04 Formal checks performed
2008.09.12 Pending	2009.06.04 Case handling is resumed
2008.12.29 Shelved	2009.01.16 Not answered in due time (PL § 15)
2008.09.12 Pending	2008.09.17 New application created

Correspondence

Date	Correspondence type	Journal description
2013.07.05	Outgoing	Annulering av opphør
2013.04.26	Outgoing	Patent - grace period is over (SPC and granted) (2013.04.26)
2012.12.07	Outgoing	Grace period has started (Patent) (2012.12.07)
2011.01.19	Outgoing	Registreringsbrev Nasjonal Patent
2011.01.07	Outgoing	Patentskrift
2010.08.30	Outgoing	Medelelse om patent
2010.08.26	Incoming	Korrespondanse (hoved dok)
2010.08.24	Outgoing	Realitet patent
2010.07.09	Outgoing	Patent - Reminder of first annual fee (2010.07.09)
2010.07.06	Incoming	Korrespondanse (hoved dok)
2010.04.19	Outgoing	Patent Utdrag
2010.04.07	Outgoing	Realitet patent

2010.03.08	Incoming	Korrespondanse (hoved dok)
2010.01.11	Incoming	Korrespondanse (hoved dok)
2009.12.07	Outgoing	Realitet patent
2009.10.06	Incoming	Korrespondanse (hoved dok)
2009.06.26	Outgoing	Uttalelse
2009.06.26	Outgoing	Ikke sendt
2009.06.26	Outgoing	PT Realitet_patent (2009.06.26)
2009.06.12	Incoming	Korrespondanse (hoved dok)
2009.06.04	Outgoing	PT Infobrev til oppfinner (2009.06.04)
2009.04.24	Incoming	Korrespondanse (hoved dok)
2009.01.16	Outgoing	Henlagt manglende svar (2009.01.16)
2008.09.26	Outgoing	PT Formelle mangler_nasj patent (2008.09.26)
2008.09.12	Incoming	Søknadsskjema PT (PT Form)

Information about documents which are not available

Payment

Payment due:

Description	Due date	Amount	Status
Annual fee Årsavgift 13. avg.år.	2020.09.30	4200,0	Ikke betalt
Total amount		4200,0	Payment history:

Description / Invoice number	Payment date	Amount	Payer	Status
Annual fee 12th year	2019.08.26	3850	ANAQUA SERVICES SAS	Paid and approved
Annual fee 11th year	2018.08.24	3500	ANAQUA SERVICES SAS	Paid and approved
Annual fee 10th year	2017.08.24	3200	ANAQUA SERVICES SAS	Paid and approved
Annual fee 9th year	2016.08.25	2850	ANAQUA SERVICES SAS	Paid and approved
Annual fee 8th year	2015.08.25	2550	ANAQUA SERVICES SAS	Paid and approved
Annual fee 7th year	2014.09.09	2200	Computer Patent Annuities Ltd	Paid and approved
[Crediting] Annual fee 6th year	2013.09.18	-1800	Computer Patent Annuities Ltd	Paid and approved
Annual fee 6th year	2013.09.10	1800	Computer Patent Annuities Ltd	Paid and approved
Annual fee 6th year	2013.09.10	1800	Computer Patent Annuities Ltd	Paid and approved
[Crediting] Annual fee 5th year	2012.09.17	-1500	Computer Patent Annuities Ltd	Paid

Annual fee 5th year	2012.09.11	1500	Computer Patent Annuities Ltd	Paid
Annual fee 5th year	2012.09.11	1500	Computer Patent Annuities Ltd	Paid
[Crediting] Annual fee 4th year	2011.09.19	-1200	Computer Patent Annuities Ltd	Paid and approved
Annual fee 4th year	2011.09.14	1200	Dennemeyer & Co Luxembourg	Paid and approved
Annual fee 4th year	2011.09.09	1200	Computer Patent Annuities Ltd	Paid and approved
[Crediting] Annual fee 1st-3rd year	2011.02.08	-1650	Dennemeyer & Co Luxembourg	Paid and approved
31010517	2010.10.19	3550	Zacco Norway AS	Paid
Annual fee 1st-3rd year	2010.09.14	1650	Dennemeyer & Co Luxembourg	Paid and approved
Annual fee 1st-3rd year	2010.09.10	1650	Computer Patent Annuities Ltd	Paid and approved
30907599	2009.05.06	900	Zacco Norway AS	Paid
30818529	2008.09.22	4000	Zacco Norway AS	Paid

This economic overview may lack information, particularly for older cases, for reimbursements, international trademarks and international designs.

Publication(s)

Links to publications and the Norwegian Patent Gazette (searchable text documents)

Last published version of the patent

Link to patent application / extract (when open for public inspection)

Link to the Norwegian Patents Gazette - when granted

Links to publications (only image files)

B1

A

What does A1, B, B1, C stand for?

Chapters without data are removed.

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