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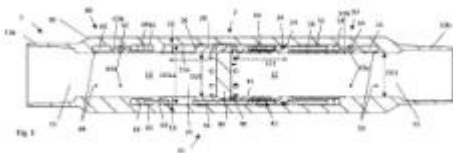
Key information

<i>Database last updated</i>	2020.08.01 14:05:00
Description / title	Well tool device for opening and closing a fluid bore in a well
Status	In force
Legal status	2019.06.24 Granted
Detailed status	2019.06.18 Granted (B1) (check also details in the case)
Patent number	343864
Application number	20180579
Filed	2018.04.25
Priority	None
Case type	National
Effective date	2018.04.25
Expiry date	2038.04.25
Publicly available	2018.05.18
Granted	2019.06.24
Applicant	Interwell Norway AS (NO)
Owner	Interwell Norway AS (NO)
Inventor	Stig Ove Bjørgum (NO)
Agent	ONSAGERS AS (NO)
Patent family	Look up in Espacenet

Abstract and drawing

 Patent Translation picture

The present invention relates to a well tool device (1) comprising a housing (10) having an axial through bore (11). It comprises a sleeve section (20) axially displaceable relative to the housing (10), where the sleeve section (20) comprises an axial through bore (21) aligned with the axial through bore (11) of the housing (10). It comprises a fluid flow preventing frangible disc (30) provided in the bore (21) in sealing engagement with the sleeve section (20). It comprises an axial fluid passage (2) bypassing the frangible disc (30) when the well tool Device (1) is in an initial state (S1), thereby allowing a fluid flow (FF1) between a first location (L1) above the frangible disc (30) and a second location (L2) below the frangible disc (30). The axial fluid passage (2) is closed when the well tool device (1) is in a subsequent state (S2). It comprises a disc supporting device (41) for supporting the frangible disc (30) in relation to the sleeve section (20), where the disc supporting device (41) is releasably connected inside the sleeve section (20) by means of a releasable connection device (42). It comprises a disintegration device (40) for disintegration of the frangible disc (30), where the well tool device (1) is in a final state (S3) when the frangible disc (30) has been disintegrated by means of the disintegration device (40).



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Classes

IPC class

E21B 33/12

E21B 33/134

CPC class

E21B 33/12

E21B 33/1208

E21B 33/134

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[History](#)

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Your reference: P25897NO00

Citations (cited documents)

US 9194205 B2 (B2)

US 2011/0000663 A1 (A1)

Opposition

NIPO's case no. 2020/00144
Filed 2020.03.24
Current status 2020.06.26 Settled

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Status history for 2020/00144

Legal status	Decision date, detailed status
2020.06.26 Settled	2020.06.26 Sub code not available
2020.03.24 Pending	2020.03.31 Letter sendt
2020.03.24 Pending	2020.03.25 Received

Correspondence for 2020/00144

Date	Correspondence type	Journal description
2020.06.26	Outgoing	OP09: Oversendelse med avgjørelse
2020.06.19	Outgoing	Generelt brev
2020.06.19	Outgoing	Bekreftelse
2020.05.19	Incoming, AR374449959	Korrespondanse (Hovedbrev inn)
2020.04.15	Incoming, AR369771943	Korrespondanse (Hovedbrev inn)

2020.03.31	Outgoing	Oversendelse av innsigelse IN01P
2020.03.31	Outgoing	Oversendelse av innsigelse IN01P
2020.03.31	Outgoing	Oversendelse av innsigelse
2020.03.31	Outgoing	Mangelbrev
2020.03.24	Incoming, AR365986088	Nytt overprøvningskrav (OP)

Information about documents which are not available

Protest / Reinstatement

NIPO's case no. 2018/00363
Filed 2018.10.29
Current status 2018.10.29 Closed

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Status history for 2018/00363

Legal status	Decision date, detailed status
2018.10.29 Closed	2019.07.01 Patent application granted, shelved or refused
2018.10.29 Pending	2018.11.05 Suspended
2018.10.29 Pending	2018.11.01 Protest registered

Correspondence for 2018/00363

Date	Correspondence type	Journal description
2018.11.05	Outgoing	Melding til søker
2018.11.05	Outgoing	Informasjon til innvender
2018.10.29	Incoming, AR286235586	Nytt overprøvningskrav (OP)

Information about documents which are not available

Case history

Status history

Legal status	Decision date, detailed status
2019.06.24 Granted	2019.06.18 Granted (B1)
2018.04.25 Pending	2019.05.06 Accepted for grant
2018.04.25 Pending	2019.03.21 Second and later letter exists
2018.04.25 Pending	2018.11.19 First letter of examination exists
2018.04.25 Pending	2018.04.27 Formal checks performed
2018.04.25 Pending	2018.04.27 New application created

Correspondence

Date	Correspondence type	Journal description
2020.03.03	Outgoing	PT Varsel om betaling av første årsavgift (3317) (PT20180579)
2019.06.28	Outgoing	PT Registreringsbrev Nasjonal Patent (15) (PT20180579)
2019.05.13	Outgoing	PT Meddelelse om patent
2019.04.15	Outgoing	Bekreftelse på patentsøknad
2019.04.11	Incoming	Korrespondanse (Hovedbrev inn)
2019.04.11	Incoming, AR315268362	Korrespondanse (Hovedbrev inn)
2019.03.26	Incoming, AR312369952	Korrespondanse (Hovedbrev inn)
2019.03.21	Outgoing	Realitet patent
2019.01.30	Incoming, AR303513643	Korrespondanse (Hovedbrev inn)
2019.01.25	Incoming, AR302657832	Korrespondanse (Hovedbrev inn)
2018.11.19	Outgoing	Realitet patent
2018.06.27	Outgoing	Infobrev til oppfinner
2018.06.22	Incoming, AR268900229	Korrespondanse (Hovedbrev inn)

2018.05.18	Incoming, AR260583508	Korrespondanse (Hovedbrev inn)
2018.04.27	Outgoing	Formalia 1
2018.04.25	Incoming, AR257177734	Søknadsskjema Patent

Information about documents which are not available

Payment

Payment due:

Next renewal/annual fee: 2021.04.30

Payment history:

Description / Invoice number	Payment date	Amount	Payer	Status
Annual fee 1st-3rd year	2020.03.16	2100	ONSAGERS AS	Paid and approved
31908151	2019.05.16	3450	ONSAGERS AS	Paid
31807307	2018.05.09	4900	ONSAGERS 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

A1

A1

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

Chapters without data are removed.

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