



Application Number

EP 17 19 6129

5

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

10

Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

15

No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

20

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

25

see sheet B

30

All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

35

As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

40

Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

1-10, 12-14(completely); 15(partially)

45

None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

50

The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

55



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 17 19 6129

5

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

10

1. claims: 1-7, 9, 10, 12-14(completely); 15(partially)
connecting a circuit board to a transducer array

15

2. claims: 8(completely); 15(partially)
alternative delay process

20

3. claims: 11(completely); 15(partially)
reduction of system complexity

25

30

35

40

45

50

55

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 17 19 6129

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-01-2019

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1491913 A2	29-12-2004	CN 1575772 A	09-02-2005
		DE 602004002523 T2	10-05-2007
		EP 1491913 A2	29-12-2004
		US 2004267135 A1	30-12-2004

WO 0217298 A1	28-02-2002	AT 356403 T	15-03-2007
		DE 60127087 T2	13-12-2007
		EP 1216473 A1	26-06-2002
		JP 5225535 B2	03-07-2013
		JP 2004506498 A	04-03-2004
		WO 0217298 A1	28-02-2002

US 6869401 B2	22-03-2005	AU 5633100 A	09-01-2001
		CA 2375525 A1	28-12-2000
		CN 1361871 A	31-07-2002
		EP 1194791 A1	10-04-2002
		JP 5705148 B2	22-04-2015
		JP 2003506172 A	18-02-2003
		JP 2012110740 A	14-06-2012
		JP 2014087700 A	15-05-2014
		TW 544301 B	01-08-2003
		US 6530887 B1	11-03-2003
		US 2002120193 A1	29-08-2002
		US 2003176787 A1	18-09-2003
WO 0079300 A1	28-12-2000		

US 6292433 B1	18-09-2001	US 6292433 B1	18-09-2001
		US 2002012289 A1	31-01-2002
		US 2002064093 A1	30-05-2002
		US 2005018540 A1	27-01-2005

专利名称(译)	超声3D成像系统		
公开(公告)号	EP3376253A3	公开(公告)日	2019-02-27
申请号	EP2017196129	申请日	2007-06-22
[标]申请(专利权)人(译)	泰拉科技公司		
申请(专利权)人(译)	TERATECH CORPORATION		
当前申请(专利权)人(译)	TERATECH CORPORATION		
[标]发明人	CHIANG ALICE M BRODSKY MICHAEL HE XINGBAI WONG WILLIAM M		
发明人	CHIANG, ALICE M BRODSKY, MICHAEL HE, XINGBAI WONG, WILLIAM M		
IPC分类号	G01S7/52 G01S15/89 A61B8/00 A61B8/02 A61B8/06 A61B8/08 A61B8/12 A61B8/14 G10K11/34		
CPC分类号	A61B8/4477 A61B8/145 A61B8/4483 A61B8/483 G01S7/5208 G01S7/52082 G01S7/52085 G01S7/52095 G01S15/8925 G01S15/8927 G01S15/8959 G01S15/8961 G01S15/8993 G10K11/346		
代理机构(译)	GRAHAM WATT & CO LLP		
审查员(译)	KNOLL伯恩哈德		
优先权	11/474098 2006-06-23 US PCT/US2007/014526 2007-06-22 WO		
其他公开文献	EP3376253A2		
外部链接	Espacenet		

摘要(译)

超声成像系统技术领域本发明涉及一种超声成像系统，其中扫描头或者包括执行远场子阵列波束成形的波束形成器电路，或者包括激励所选元件的稀疏阵列选择电路。当与第二级波束形成系统一起使用时，可以生成三维超声图像。

