# 创新性描述比对分析报告 一种调整显示内容的方法包括:接收用户输入的重力想应角度调整指令,所述重力想应角度调整指令使重力感应角度改变指定角度根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的实舟小于预设角度 创新性结论: <u>无创新性</u> 新爾性結论: <u>无新爾性</u> 创造性结论: <u>无条</u> 分析结果: 分析标准: 该创新性描述共包含 2 个技术特征, 其中技术特征 1、2 (共 2 个)被对比专利揭示, 技术特征 0 (共 0 个)未被对比专利揭示。 创新性定论结论 新颗性 创造性 该能能性推定100.00% %的技术特定被对比专利限示。且最高这些技术特征的最少专利数为1,其中电缆专利模式比例分数分:CN101673173A(100.00%),CN101603082A(100.00%),CN1030082A(100.00%),因此判断法金额性推进多阶解处为:完全链性。 这种性性能量的,这种性能量的,是一种性能性能量的,是一种性能性能能够能够成为,是一种性能性能能够能够的。专利数为1,其中电缆专用的成本的处理的分别分。CN101673173A(100.00%),CN103103082A(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),CN10312547B(100.00%),因此判断该组锁性能差的结准性方:无衡。 无 大 / 无 有 无(弱) 有 有(中) 有 有(強) 该创新性描述的每个技术特征被对比专利揭示的具体情况如下: ・ 原本程で一条機能の対象がある。 ・ 原本程で一条機能の対象が表現である。 ・ 原本程を一条機能の対象が表現である。 ・ 原本程で一条機能の対象が表現である。 ・ 原本程で一条機能の対象が表現である。 ・ 原本程で一条機能を向きまからある。 ・ 原本程で一条機能を向きまから表現である。 ・ 原本程で一条機能を向きまからある。 ・ 原本程で一条機能を向きまから表現である。 ・ 原本程で一条機能を向きまからある。 ・ 原本程で一条機能を向きまからある。 ・ 日本程で一条機能を向きまからある。 ・ 日本程で一条機能を向きまからある。 ・ 日本程で一条機能を向きまからある。 ・ 日本程では、

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 $0\% \le \beta \le 30\%$  / 有協  $30\% < \beta \le 40\%$  1 有協  $40\% < \beta \le 40\%$  1 有中  $40\% < \beta \le 70\%$  / 有中  $70\% < \beta \le 100\%$  / 无德

## 专利CN101030982A与该创新性描述的比对报告

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序号	专利CN101030982A	技术特征相似度	序号	该创新性描述
	摘要			
1	本发明提供一种自动调整显示屏内容显示方向的装置,包括:想应和输出三维空间方向旋转矢量数据的姿态传感单元、分析姿态传感器上传的旋转矢量数据并判断手持移动设备是否旋转以及旋转角度的数据分析单元及根据分析结果调整手持移动设备显示屏内容显示方向的显示调整单元	64.5%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
2	本发明还提供一种自动调整显示屏内容显示方向的方法,包括以下步骤:A.感应三维空间方向旋转矢量数据	60.8%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
3	B.根据所述旋转矢量数据分析手持移动设备是否旋转以及旋转的角度	50.2%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
4	C.根据分析结果调整显示屏显示内容的显示方向	74.7%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
5	本发明使得用户在三维空间任意旋转手机时能直接看到适应方向的屏幕显示,手持移动设备也更加人性化	54.7%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
	权利要求			
6	<ol> <li>种自动调整显示屏内容显示方向的装置。包括显示屏,其特征在于:还包括:姿态传感单元。用于感应和输出三维空间方向旋转矢量数据。所述旋转矢量数据包括:旋转三维位置、旋转角速度以及旋转角加速度</li> </ol>	63.6%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
7	数据分析单元,用于分析姿态传感器上传的旋转矢量数据,判断手持移动设备是否旋转以及旋转的角度	53.7%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
8	以及显示调整单元,用于根据分析结果调整手持移动设备显示屏内容的显示方向	59.6%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
9	2.根据权利要求1所述的装置,其特征在于:还包括简值设置单元,用于设置调整显示屏内容显示方向的旋转角度阈值	59.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
10	3.根据权利要求1所述的装置,其特征在于: 所述姿态传感单元是微硅加速度传感器			
11	4.根据仪利要求1所述的装置。其特征在于:还包括报警单元。用于当手持移动设备任意三维空间角度旋转过快、接收所述数据分析单元通知发出旋转过快的警告。	57.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
12	5.根据权利要求1所述的装置,其特征在于: 所述显示屏为图形显示屏	57.1%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
13	6.一种自动调整显示屏内容显示方向的方法,包括以下步骤:A.感应三维空间方向旋转矢量数据。所述旋转矢量数据包括:旋转三维位置、旋转角速度以及旋转角加速度	63.6%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
14	B.根据所述旋转矢量数据分析手持移动设备是否旋转以及旋转的角度	50.2%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
15	以及C.根据分析结果调整显示屏内容的显示方向	69.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
16	7.根据权利要求6所述的方法,其特征在于:在所述步骤A之前还包括用户手动设置调整显示屏内容显示方向的旋转角度阈值的步骤	63.0%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
17	8.根据权利要求7所述的方法,其特征在于: 如果所述显示屏为圆形显示屏,则所述步骤C可根据分析结果实时调整显示屏内容的显示方向	63.8%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
18	9.根据伙利要求8所述的方法。其特征在于:如果所述步骤B中分析在显示屏水平面内旋转时,则所述步骤C中根据旋转角度反向旋转相同角度调整显示屏内容显示方向	59.5%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
19	如果所述步骤B中分析在与显示屏垂直方向旋转每超过180度,则所述步骤C中调整显示屏的显示内容显示方向每次旋转180度	58.8%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
20	10.根据权利要求8所述的方法,其特征在于: 如果所述步骤B中分析出手持移动设备任意三维空间角度旋转过快,则还执行步骤: D.发出旋转过快的警告			

#### 专利CN103512547B与该创新性描述的比对报告

	专利CN1035125476与该创新性拥处的比对报告					
序号	专利CN103512547B	技术特征相似度	序号	该创新性描述		
	摘要					
1	一种实现视力保护的方法,用于包括一显示单元,一电流侦测单元,一图像采集单元及微处理器的电子装置,该方法包括以下步骤: 列斯所述显示单元是 否处于开启状态	60.4%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
2	当所述显示单元处于开启状态时,采集所述显示单元前方的图像	64.9%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
3	判断所采集到的图像中是否有人跟的图像					
4	当判断所采集到的图像中有人眼的图像时,计算所采集到的图像中用户双眼的瞳距	50.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
5	将所计算出的双眼瞳距与预设的距离相比以判断用户与电子装置之间的距离是否在安全距离范围内					
6	及当用户与电子装置之间的距离不在安全距离范围内时,发送一控制命令以控制电子装置向用户发出提醒信息	58.5%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
7	本发明还提供了一种应用该方法的电子装置	57.9%	1	<ul><li>一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度</li></ul>		
	权利要求					
8	1.一种电子被置、包括一显示导元,一用于被脑底向所法显示单元的电流检查接受,一用于采集所还是示导元前方他隐喻的隐律某事等。一用 于感谢所述电子装置的位置是否发生变化的加速度传感中元,及微处理器,其特征在于,所述微处理器包括:一用于根据所述电流侦测单元所感谢到通过 所述显示单元的电流即调新光显示单 元品名处于开启化态的判断模块	66.0%	1	一种调整显示内容的方法包括:接受用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
9	一用于在所述显示单元处于开启状态时,判断所述图像采集单元所采集到的图像中是 否存在人眼图像的图像识别模块	59.1%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
10	一用于在所述采集到的图像中存在人眼图像时,获取所述图像采集单元所采集到的图 像中用户双眼的瞳距的瞳距获取模块	56.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
11	一提醛模块	51.3%	1	<ul><li>一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度</li></ul>		
12	其中,所述判断模块还用于根据所述魏距获取模块所获取的用户双跟魏距判断用户与 电子装置之间的距离是否在安全距离范围内,并在用户与电子装置之间的距离不在安全距离范围内时,向所述接醛模块发送一控制命令	62.0%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
13	所述提醒模块则在接收到所述控制命令时, 控制向用户发出提醒信息	64.3%	1	<ul><li>一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度</li></ul>		
14	及 所述提处理截还包括一位的计算与解解模块。用于在所述的选择使每并无感到的所述。电子被置约的信度生了改变的计算所述电子装置位置变化的位移大 办,并将该位移与一项设位移相比以则略用户与所述电子装置之间距离的是否发生了变化。当所述电子装置位置 变化的位移大于预设的位移时,所述位移 计算与明确模块判断所述电子装置与用户之间的距离发生了改变。使发述一些影响令给所述电准线顺梯元	71.4%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
15	<ol> <li>如权利要求1所述的电子装置,其特征在于,当所述雜距稅取模块所稅取的用户双 眼瞳距大于一预设距离时,所述判断模块判断用户与所述电子装置之 间的距离不在安全距 萬范围内</li> </ol>	53.3%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
16	3. 如权利要求1所述的电子装置,其特征在于、当所述电流侦测单元感测到通过所述显示单元的电流值大于预询电流值时,所述判断模块判断所述显示单元处于开启状态。便发送一倍号给所述图像采集模块	69.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
17	4. 如权利要求1所述的电子装置,其特征在于,还包括扬声器、设置于显示单元上的指示灯,所述提醒模块在接收到所述控制命令时,控制所述扬声器发出报警声音或指示灯闪烁	62.7%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
18	5. 如权利要求1至4任意一项所述的电子装置,其特征在于,所述图像采集单元为设置 于与所述显示单元同一面的摄像头	60.4%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
19	6.种实现视力保护的方法,用于包括一显示单元,一电流侦测单元,一图像采集单 元,一加速度传感单元及微处理器的电子装置,该方法包括以下步骤: 判断所述显示单元是否处于开启状态	60.6%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
20	当所述显示单元处于开启状态时,采集所述显示单元前方的图像	64.9%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
21	判断所采集到的图像中是否有人跟的图像					
22	当判断出所采集到的图像中有人跟图像时,计算所采集到的图像中用户双跟的瞳距					
23	将所计算出的双眼瞳距与预设的距离相比较以判断用户与电子装置之间的距离是否 在安全距离范围内					
24	当用户与电子装置之间的距离不在安全距离范围内时,发送一控制命令以控制电子装 置向用户发出提醒信息	60.5%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
25	及 感测电子装置位置是否发生了改变,当感测到电子装置的位置发生了改变之后,计算 所述电子装置位置变化位移的大小,当所述电子装置位置变化位移 大于一预设位移时,返 回到步骤"判断所述显示单元是否处于开启状态"	66.8%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
26	7. 如权利要求8所述的方法,其特征在于,所述步骤"判断所述显示单元是否处于开启 状态"包括: 感测所述显示单元的电流值	59.5%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
27	及,将该电流值与预设的电流值相比较以判断所述显示单元的是否处于开启状态	55.7%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
28	<ul><li>a. 如权利要求8所送的方法,其特征在于,当所计算出的双眼瞳距大于预设的距离时,判断用户与电子装置之间的距离不在安全距离范围内</li></ul>	60.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		

## 专利CN101673173A与该创新性描述的比对报告

	213011010		42247507.	
序号	专利CN101673173A	技术特征相似度	序号	该创新性描述
	摘要			
1	本发明运用于移动通信技术领域,提供了一种显示界面的调节装置、方法及移动终端,所述装置包括:摄像头、用于逐帧扫描、跳踪每一帧图像上的用户 头部或者眼睛的位置信息,获取所述用户头部或者眼睛的位移信息	70.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
2	界面移动控制模块,用于根据接收到的所述摄像头获取的用户头部或者眼睛的位移信息控制移动终端的界面发生相同的位移变化,并当用户头部或者眼睛 从摄像头捕捉范围内消失时,控制移动终端的界面停止移动	62.1%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
3	在本发明中,界面移动控制模块根据接收到的摄像头获取的用户头部或者眼睛的位移信息控制移动终端的界面发生相同的位移变化,使用户的眼睛和移动 终端界面保持不变的位置,从而使移动终端的界面没有晃动的感觉,降低了用户的视觉疲劳	57.6%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
	权利要求			
4	1、一种显示界面的调节装置。其特征在于,所述装置包括: 攝像头,用于逐帧扫描、跟踪每一帧图像上的用户头部或者眼睛的位置信息,获取所述用户头部或者眼睛的位移信息	68.2%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
5	界面移动控制模块,用于根据接收到的所述摄像头获取的用户头部或者眼睛的位移信息控制移动终端的界面发生相同的位移变化,并当用户头部或者眼睛 从摄像头捕捉范围内消失时,控制移动终端的界面停止移动	62.1%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
6	2、如权利要取所述的装置,其特征在于,所述装置还包括:振动传感器,用于感应移动终端的振动,当所逻移动终端振动的频率和幅度在预先设定的范围时,启动所述据像头和所述界面移动控制模块工作	58.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
7	3、一种移动终端,其特征在于,所述移动终端包括纟又利要求1或2所述的显示界面的调节装置	54.3%	1	<ul><li>一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令、所述重力感应角度调整指令使重力感应角度改变指定角度</li></ul>
8	4、一种显示界面的调节方法,其特征在于,所述方法包括下述步骤:摄像头跟踪每一帧图像上的用户头部或者眼睛的位置信息,获取所述用户头部或者眼睛的位移信息。	63.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
9	所述摄像头将所述获取的用户头部或者眼睛的位移信息传送至界面移动控制模块	64.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度
10	所述界画移动控制模块根据所述用户头部或者眼睛的位移信息控制移动终端的界面发生相同的位移变化,并当用户头部或者眼睛从摄像头捕捉范围内消失 时,控制移动终端的界面停止移动	61.2%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
11	5、如权利要求4所送的方法。其特征在于、在所述酬偿头调除每一帧图像上的用户头部或者赔酬的位置信息。获取所述用户头部或者赔酬的位移信息的步 例之,所述方法还包括下达步骤。振动特虑想应反动改编的振动。当所这移动挖疆版动的崇丰和编度在预先设定的范围时,启动所述酬偿未和所述界 周移动控制模式并充分。	68.0%	1	一种调整显示内容的方法包括:接受用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度
12	6、如校利要求4所述約方法,其特征在于,在所述摄像头跟踪每一帧图像上的用户头部或者眼睛的位置信息,获取所述用户头部或者眼睛的位移信息的步骤之前,所述方法还包括下述步骤:手动启动所述摄像头和所述界面移动控制模块工作	63.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度

#### 专利CN103512547A与该创新性描述的比对报告

	专利ON103512547A与该创新性抽处的几对按告					
序号	专利CN103512547A	技术特征相似度	序号	该创新性描述		
	摘要					
1	一种实现现力保护的方法,用于包括一显示单元,一电流侦测单元,一图像采集单元及微处理器的电子装置,该方法包括以下步骤: 判断所述显示单元是 否处于开启状态	60.4%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
2	当所述显示单元处于开启状态时,采集所述显示单元前方的图像	64.9%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
3	判断所采集到的图像中是否有人眼的图像					
4	当判断所采集到的图像中有人眼的图像时,计算所采集到的图像中用户双眼的瞳距	50.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
5	将所计算出的双眼瞳距与预设的距离相比以判断用户与电子装置之间的距离是否在安全距离范围内					
6	及当用户与电子装置之间的距离不在安全距离范围内时,发送一控制命令以控制电子装置向用户发出提醒信息	58.5%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
7	本发明还提供了一种应用该方法的电子装置	57.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
	权利要求					
8	1.一种电子装置、包括一显示单元、一用于感测流向所述显示单元的电流值的电流侦测单元、一用于采集所述显示单元前方的图像的图像采集单元、及微处理器、其特征在于、所述做处理器包括一用于根据所述电流侦测单元所感测到通过所述显示单元的电流值判断所述显示单元是否处于开启状态的判断模块	63.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
9	一用于在所述显示单元处于开启状态时,判断所述图像采集单元所采集到的图像中是否存在人眼图像的图像识别模块	59.1%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
10	一用于在所述采集到的图像中存在人眼图像时,获取所述图像采集单元所采集到的图像中用户双眼的瞳距的瞳距获取模块	56.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
11	及一提醒模块	51.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
12	其中,所述列嘶模块还用于根据所述蟾距获取模块所获取的用户双眼瞻距列嘶用户与电子装置之间的距离是否在安全距离范围内,并在用户与电子装置之间的距离不在安全距离范围内时,向所述提醒模块发送一控制命令	62.0%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
13	所述提醒模块则在接收到所述控制命令时,控制向用户发出提醒信息	64.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
14	2.如权利要求1所述的电子装置,其特征在于,当所述瞻距获取模块所获取的用户双跟瞻距大于一预设距离时,所述判断模块判断用户与所述电子装置之间的距离不在安全距离范围内	53.3%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的来角小于预设角度		
15	3.如权利要求1所述的电子装置,其特征在于,当所述电流侦测单元感测到通过所述显示单元的电流值大于预设电流值时,所述判断模块判断所述显示单元处于开启状态。便发送一倍号给所述图像采集模块	69.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
16	4.炮权利要求1所述的电子装置。其特征在于,还包括扬声器、设置于显示单元上的指示灯。所述提醒模块在接收到所述控制命令时,控制所述扬声器发出报警声音或指示灯闪烁	62.7%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
17	5.如权利要求1至4任意一项所述的电子装置,其特征在于,所述图像采集单元为设置于与所述显示单元同一面的摄像头	60.4%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
18	组成时规模系标述的电子被置,其特征在子、结束于是整个图形—加速度传导来,用于感到所述电子被置的位置最高发生了变化。所经晚过整数在包括 一位暂计算与非确能,用于在所经验通常的电子振到的形式中差别的宣复发生了变效。可能 位位即相比以和原用户与所述电子被置之规能的的是改生了变效。但所述者子被置位置变化的信息大于预设的位移时,所述但移计算与判断模块判断所 述中子报告目用户公别的距离发生了变效。是发达一步指向令他对途由此的原子。	70.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
19	7.一种实现视力保护的方法,用于包括一显示单元,一电流侦测单元,一图像采集单元及微处理器的电子装置,该方法包括以下步骤:判断所述显示单元是 否处于开启状态	60.6%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
20	当所述显示单元处于开启状态封,采集所述显示单元前方的图像	64.9%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
21	判断所采集到的图像中是否有人跟的图像					
22	当判断出所采集到的图像中有人跟图像时,计算所采集到的图像中用户双眼的瞳距					
23	将所计算出的双眼瞳距与预设的距离相比较以判断用户与电子装置之间的距离是否在安全距离范围内					
24	及当用户与电子装置之间的距离不在安全距离范围内时,发送一控制命令以控制电子装置向用户发出提醒信息	58.5%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
25	8.如权利要求7所述的方法,其特征在于,所述步骤"判断所述显示单元是否处于开启状态"包括:感测所述显示单元的电流值	59.8%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
26	及将该电流值与预设的电流值相比较以判断所述显示单元的是否处于开启状态	55.7%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
27	9.如权利要求7所述的方法,其特征在于,当所计算出的双眼瞳距大于预设的距离时,判断用户与电子装置之间的距离不在安全距离范围内	60.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
28	10.如权利要求7所述的方法,其特征在于,感测电子装置位置是否发生了改变,当感测到电子装置的位置发生了改变之后,计算所述电子装置位置变化位移 的大小,当所述电子装置位置变化位移大于一预设位移时,返回到步骤"判断所述显示单元是否处于开启状态"	66.1%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		

#### 专利CN101488030A与该创新性描述的比对报告

	专机GN101488030A与该创新性抽处的CN1板告					
序号	专利CN101488030A	技术特征相似度	序号	该创新性描述		
	摘要					
1	本发明适用于显示屏技术领域,提供了一种显示屏调整装置以及方法	55.9%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
2	该调整装置包括:位置检测器,用于检测用户的位置	65.8%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
3	调整量计算器,用于根据用户的位置计算所述显示屏高度和/或角度的调整量	61.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
4	显示屏调整器,用于根据所述调整量对显示屏进行调整	67.7%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
5	该调整方法包括以下步骤: (A)位置检测器检测用户的位置	68.4%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
6	(B)调整量计算器根据用户的位置计算所述显示屏高度和/或角度的调整量					
7	(C)显示屏调整器根据所述调整量来对所述显示屏进行调整	67.2%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
8	本发明提供的技术方案能自动检测用户所处的位置,根据用户的位置自动调整显示屏的高度和/或角度以适应用户的现看方位,使用户看到电视机的最佳显示效果,而不需要用户自行调整	60.1%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
	权利要求					
9	<ol> <li>一种显示屏调整装置,其特征是该调整装置包括:位置检测器,用于检测用户的位置</li> </ol>	60.5%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
10	调整量计算器,用于根据用户的位置计算所述显示屏高度和/或角度的调整量	61.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
11	显示屏调整器,用于根据所述调整量对显示屏进行调整	67.7%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
12	<ol> <li>根据权利要求1所述的调整装置,其特征是所述位置检测器包括:图像获取器,用于获取用户图像</li> </ol>	60.0%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
13	脸部检测器,用于从用户图像中检测脸部图像,并提取脸部特征	58.4%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
14	位置计算器,用于计算脸部图像在用户图像中的位置以及脸部图像中脸部 特征之间的距离,并计算出用户的位置					
15	<ol> <li>根据权利要求1所述的调整装置,其特征是所述显示屏调整器包括: 控制器,用于才良据所述调整量驱动动力装置</li> </ol>	57.9%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
16	动力装置,用于向传动装置提供动力	55.7%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
17	传动装置,它与动力装置相耦合,用于对显示屏进行调整	56.4%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
18	<ol> <li>根据权利要求3所述的调整装置。其特征是所述显示屏调整器还包括:调整量传感器,用于测量显示屏调整的高度值和/或角度值、并将结果发送给控制器</li> </ol>	59.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
19	5. 根据权利要求1所述的调整装置。其特征是所述位置检测器包括: 红外光发射器,用于产生红外光井分别对用户所处的空间的X方向,Y方向,Z方向进4 宁扫描					
20	时间基准信号发射器,用于产生时间基准信号,向被扫描空间发射X、Y,Z时间基准信号					
21	位置传感器,用于测量红外光发射器在X, Y, Z方向的扫描坐标	55.3%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
22	红外光接收器,用于接收红外光发射器发出的红外扫描信号	56.9%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
23	时间基准信号接收器,用于接收X,Y, Z时间基准信号	66.0%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
24	存储器,用于存储扫描时间与用户位置的对应关系	59.5%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
25	控制器,用于计算时间基准信号与红外扫描信号之间的时间差,得出用户 的位置	57.2%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
26	6. 一种显示屏调整方法,其特征是该方法包括以下步骤: (A) 位置检测器检测用户的位置	59.0%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
27	(B) 调整量计算器根据用户的位置计算所述显示屏高度和/或角度的调整量					
28	(C)显示屏调整器一艮据所述调整量来对所述显示屏进行调整	65.4%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		
29	7. 根据权利要求8所述的调整方法,其特征是,步骤(A)具体包括: 图像获取器获取用户图像	57.7%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
30	脸部检测器从用户图像中检测脸部图像,并提取脸部特征	58.7%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
31	位置计算器计算验部图像在用户图像中的位置以及脸部图像中脸部特征之 间的距离,并计算出用户的位置					
32	8. 根据权利要求7所述的调整方法,其特征是在步骤(A)之前事先建立用 户脸部与图像获取器的距离和脸部图像中脸部特征之间的距离的对应关系	58.3%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
33	<ol> <li>根据权利要求8所述的调整方法,其特征是在步骤(A),位置检测器利用上述对应关系,根据检部图像在用户图像中的位置和检部图像中检部特征之间的距离计算用户的位置</li> </ol>	56.5%	1	一种调整显示内容的方法包括:接收用户输入的重力感应角度调整指令,所述重力感应角度调整指令使重力感应角度改变指定角度		
34	10. 根据权利要求6所述的调整方法,其特征是在步骤(C), 显示屏调整 器依次调整显示屏的高度、角度	60.2%	2	根据调整后的重力感应角度显示内容,使得所述内容的显示方向和所述用户的双眼方向之间的夹角小于预设角度		

# 专利US20110292009A1与该创新性描述的比对报告

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processing unit for adjusting an opening angle defined between the display and the base according to the adjusting signal according to the display and the base according to the adjusting signal trovic device of claim 1, wherein the detecting unit is for automatically detecting whether a user is in troot of the display, and further for ing the positional relationship between the display and the user if it is determined that the user is in froot of the display and further for protocol device of claim. It wherein the descripting unit generates a distance as the position relationship between the display and a face of the user is in the display, the distance is determined that the user is in the display, the distance is determined that the user is in the display, the distance is determined that the user is in the display and selected the display and a face of the user control device of claims. J wherein the determining unit comprehens a capturing unit for oraphuring an image with a predetermined field of view. And the provided of the display are suffered to the display and the sum of the face of the image, and further for determining a face in the image if it is judged that a human exists suger successing the distance accordingly image and the position of the screen in that field of view. And the image being located in front of the screen in that field of view including unit for calculating an area of the face of the image, and further for determining a face in the image if it is judged that a human exists within the image, and further for determining a face in the image if it is judged that a human exists within the image, and further for determining a face in the image if it is judged that a human exists within the image, and further for determining a face in the image if it is judged that a human exists within the image, and further for determining a face in the image if it is judged that a human exists within the image, and further for determining a face in the image if it is judged that a human exists within th			
ands driving unif for adjusting an opening angle defined between the display and the base according to the adjusting signal torticol device of dain is, wherein the descript up all is of automatically detecting whether a user is in front of the display, and further for right periodicional relationship between the display and the user if it is determined that the user is in front of the display and the display, the distance is defined between the display and a face of the user is the display, the distance is defined between the display and a face of the user is the display, the distance is defined between the display and a face of the user is the display, the distance is defined between the display and a face of the user produced in form of the screen in that field of view and periodicion of the screen in that field of view and periodicion of the display whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists single.			
choice dece of claim 1, wherein the detecting unit is for automatically detecting whether a user is in front of the display, and further for night the positional relationship between the display and the user if it is determined that the user is in front of the display to the control of the display. The provided is the control of the display and the user is in the display, the distance is defined between the display and a face of the user in the display, the distance is defined between the display and a face of the user in the display, the distance is defined between the display and a face of the user in the display, the distance is defined between the display and a face of the user is in the display. The display whether a face is the display display and a face in the interpretation of the display displa			
ng the positional relationship between the display and the user if it is determined that the user is in front of the display in the control device of dain in, wherein the deleting unit generates a distance as the positional relationship when it is determined that the user is in the display, the distance is defined between the display and a face of the user.  The display is destinated between the display and a face of the user display and a face in the image with a predetermined field of view, and periodic possible in fort of the screen in that field of view is a face in the image of the time of the face of the image, and further for determining a face in the image display display and a face in the image of the face of the image, and further for generating the distance accordingly image in the capturing an image with a predetermined field of view, and the image being located in front of the screen in that field of view intaking unit for judging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists age.			
closed device of claim 1, wherein the detecting unit generates a distance as the positional relationship when it is determined that the user is in the display, the distance is defined between the display and a face of the user trovic device of claim 3, wherein the detecting unit comprises: a capturing unit for capturing an image with a predetermined field of view, and so being located in front of the screen in that field of view are claim to the control of the screen in that field of view. The control of the screen in the field of view are control of the			
the display, the distance is defined between the display and a face of the user torticol device of claim. Juvernit he discring unit comprises: a capturing unit for capturing an image with a predetermined field of view, and spice being located in front of the screen in that field of view. And for the capturing an image with a predetermined field of view, and uniting unit for yudging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists sage: scudding unit for calculating an area of the face of the image, and further for generating the distance accordingly inguil for calculating an area of the face of the image, and further for generating the distance accordingly inguil for calculating an area of the face of the image, and further for determining a face in the image if it is judged that a human exists sage.			
be being located in front of the screen in that field of view liciting unit for judging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists sage: locating unit for calculating an area of the face of the image, and further for generating the distance accordingly ing unif for calculating an area of the face of which image, and further for generating the distance accordingly ing unif for calculating an amage with a predetermined field of view, and the image being located in front of the screen in that field of view initing out filt or judging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists sage.			
nizing unit for judging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists age substaining unit for calculating an area of the face of the image, and further for generating the distance accordingly ining unit for capturing an image with a predetermined field of view, and the image being located in front of the screen in that field of view initing unit for judging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists sage			
tage  actualising unit for calculating an area of the face of the image, and further for generating the distance accordingly ting unit for capturing an image with a predetermined field of view, and the image being located in front of the screen in that field of view rizing unit for loging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists age			
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nizing unit for judging whether a human exists within the image, and further for determining a face in the image if it is judged that a human exists lage			
nage			
Invitation unit for calculation an area of the face of the image, and further for generation the distance accordingly			
ctronic device of claim 4			
the calculating unit comprises proportional differences defined by different distances and different areas which are in proportion to the			
onding distances			
ulating unit is able to generate a distance by looking up the proportional differences according to an area			
ctronic device of claim 3, wherein the processing unit determines whether the distance is equal to a predetermined distance predetermined			
n the processing unit, and generates the adjusting signal if it is determined that the distance is not equal to the predetermined distance			
ctronic device of claim 1, wherein the detecting unit generates a distance as the positional relationship when it is determined that the user is in the display, the distance is defined between the display and a body of the user			
stronic device of claim 7, wherein the detecting unit comprises: a capturing unit for capturing an image located in front of the screen in that field			
and the device of claim 1, wherein the deceeing and companies, a capturing and image recalled in from the deceeing that make			
nizing unit for judging whether a human exists within the image			
alculating unit for calculating the distance between the display and the body of the user relative to the human face, if it is judged that a human			
ithin the image			
ring unit for capturing an image located in front of the screen in that field of view			
nizing unit for judging whether a human exists within the image			
Iculating unit for calculating the distance between the display and the body of the user relative to the human face, if it is judged that a human			
ithin the image			
ctronic device of claim 7, wherein the processing unit determines whether the distance is equal to a predetermined distance predetermined			
n the processing unit, and generates the adjusting signal if it is determined that the distance is not equal to the predetermined distance			
stronic device of claim 9, further comprising a storing unit for storing the predetermined distance			
stronic device of claim 1, further comprising a hinge for pivotably connecting the display to the base, the driving unit comprising a motor			
y set on the hinge, the motor for driving the hinge to rotate for adjusting the opening angle according to the adjusting signal			
sting method for automatically adjusting an opening angle defined between a display and a base of an electronic device, the adjusting method ing: detecting a positional relationship between the display and a user in front of the display			
ing an adjusting signal according to the positional relationship			
usting the opening angle according to the adjusting signal			
g a positional relationship between the display and a user in front of the display			
ing an adjusting signal according to the positional relationship			
sting the opening angle according to the positional relationship			
isting method of claim 14, further comprising: capturing an image with a predetermined field of view, and the image is located in front of the in that field of view			
usung method of claim 14, further comprising determining whether the distance is equal to a predetermined distance predetermined stored in tronic device			
erating the adjusting signal if it is determined that the distance is not equal to the predetermined distance			
ning whether the distance is equal to a predetermined distance predetermined stored in the electronic device			
erating the adjusting signal if it is determined that the distance is not equal to the predetermined distance			
erating the adjusting signal if it is determined that the distance is not equal to the predetermined distance string method of claim 12, wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting			
entaing the adjusting signal if it is determined that the distance is not equal to the predetermined distance asting method of claim 12 wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance			
exating the adjusting signal if it is determined that the distance is not equal to the predetermined distance using method of claim 12, wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance sating method of claim 18, further comprising: capturing an image located in front of the screen in that field of view whether a furnam exists within the image.			
enting the adjusting signal if it is determined that the distance is not equal to the predetermined distance string method of claim 12, wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance string method of radim 18, further comprising: capturing an image located in front of the screen in that field of view whether a human exists within the image ubdating the distance between the display and the user relative to the human, if it is judged that a human exists within the image			
exating the adjusting signal if it is determined that the distance is not equal to the predetermined distance using method of claim 12, wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance sating method of claim 18, further comprising: capturing an image located in front of the screen in that field of view whether a furnam exists within the image.			
existing the skiguisting signal if it is determined that the distance is not equal to the procedermined distance using method of claim 12, wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance sating method of claim 18, further comprising: capturing an image located in front of the screen in that field of view whether a human exists within the image ubdating the distance between the display and the user relative to the human, if it is judged that a human exists within the image gas image located in front of the screen in that field of view whether a human exists within the image			
enting the adjusting signal if it is determined that the distance is not equal to the predetermined distance single method of distance single method of distance. The Amenium be positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance single method of distance.  It is subject to the screen in that field of view whether a human exists within the image user in the distance between the display and the user relative to the human, if it is judged that a human exists within the image whether a human exists within the image user the property of the screen in that field of view whether a human exists within the image			
existing the skiguisting signal if it is determined that the distance is not equal to the procedermined distance using method of claim 12, wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance sating method of claim 18, further comprising: capturing an image located in front of the screen in that field of view whether a human exists within the image ubdating the distance between the display and the user relative to the human, if it is judged that a human exists within the image gas image located in front of the screen in that field of view whether a human exists within the image			
evaleng the adjusting signal if it is determined that the distance is not equal to the predetermined distance sation preded of distance sation preded of distance provided in the control of the control of the screen in that field of view whether a human exists within the image Justing the distance between the display and the user relative to the human, if it is judged that a human exists within the image an image located in first of the socreen in that field of view whether a human exists within the image Justing the distance between the display and the user relative to the human, if it is judged that a human exists within the image Justing the distance between the display and the user relative to the human, if it is judged that a human exists within the image Justing the distance between the display and the user relative to the human, if it is judged that a human exists within the image Justing the distance between the display and the user relative to the human, if it is judged that a human exists within the image Justing the distance between the display and the user relative to the human. If it is judged that a human exists within the image Justing the distance between the display and the user relative to the human. If it is judged that a human exists within the image Justing the distance between the display and the user relative to the human. If it is judged that a human exists within the image Justing the distance between the display and the user relative to the human.			
existing the displating signal if it is determined that the distance is not equal to the predetermined distance sating method of claim 12, wherein the positional relationship is defined by a distance between the display and a body of the user, the adjusting generated according to the distance sating method of claim 18, further comprising: capturing an image located in front of the screen in that field of view whether a human estimation within the image publishing the distance between the display and the user relative to the human, if it is judged that a human exists within the image go an image located in front of the screen in that field of view whether a human exists within the image ulating the distance between the display and the user relative to the human, if it is judged that a human exists within the image ulating the distance between the display and the user relative to the human, if it is judged that a human exists within the image ulating the distance between the display and the user relative to the human, if it is judged that a human exists within the image ulating the distance between the display and the user relative to the human, if it is judged that a human exists within the image such as the distance between the display and the user relative to the human, if it is judged that a human exists within the image such that the properties of the properti			
ing g s ust g s ust cull ust ust ust re-	hether a human exists within the image, and further for determining a face in the image if it is judged that a human exists within the image stating as are and the face of the user accordingly and the face of the user accordingly an image with a predetermined field of they, and the face is closed in front of the screen in that field of were well-where a human exists within the image. and further for determining a face in the image if it is judged that a human exists within the image stating are sen of the face of the image, and further for generating the distance between the display and the face of the user, as executingly litting method of or load in 15, wherein the distance is generated by judged that a human exists within the image stating are sen of the face of the user, as executingly litting method of or load in 15, wherein the distance is generated by judged that a human exist within the image and face of claim 15, wherein the distance is are defined with a face of the user, as the proportional is an existent proportional and the stating in the distance is expected to the proportional and the stating the adjusting signal if it is determined that the distance is not equal to the predetermined distance in the distance is expected to a problem into distance predetermined stored in the electronic device along the adjusting signal if it is determined that the distance is not equal to the predetermined distance in the electronic device along the adjusting signal if it is determined that the distance is not equal to the predetermined distance proportional restrictions in the electronic device along the adjusting signal if it is determined that the distance is not equal to the predetermined distance and the stating the adjusting signal if it is determined that the distance is included to a problem the distance in the electronic device along the adjusting signal if it is determined that the distance is not equal to the predetermined distance.	githe positional relationship between the display and the user if it is determined that the user is in front of the display with the subset is a simple of the control from display in whether a user is in front of the display and he user if it is determined that the user is in front of the display and incord in the user, and the display in ingerited and control in the bidder in the display and incord in the display and incord in the display and incord in the display and in the original incording in the display in ingerited and in the control in the display and the time of the interplay and in the display and the first of the user accordingly and impact with a predetermined field of view, and the image is distance between the display and the face of the user accordingly and impact with a predetermined field of view. And the image is distance between the display and the face of the user accordingly and impact and display and the first in the display and the face of the user accordingly displayed first in the distance is expected by different distances and different areas in proportion to corresponding distances.  In a display the distance of the distance and different areas in proportion to corresponding distances and different areas in proportion to corresponding distances and distance predetermined distance predetermined distance predetermined distance and a predetermined that the distance and equal to the predetermined distance predetermined distance and a predetermined distance and	githe positional relationship between the display and the user if it is determined that the user is in front of the display whether a user is in front of the display githe positional relationship between the display and the user if it is determined that the user is in front of the display ling method of claim 12, wherein the positional relationship is defined by a distance between the display and a face of the user, and the significant of claim 12, wherein the positional relationship is defined by a distance between the display and a face of the user, and the significant is described by the distance of claim 14, further comprising; capturing an image with a predetermined field of view, and the image is located in front of the three harman exists within the image, and further for generating the distance between the display and the face of the user accordingly an image with a predetermined field of view, and the image is located in front of the screen in that field of view there harman exists within the image, and further for generating the distance between the display and the face of the user accordingly an image with a predetermined field of view, and the image is located in front of the screen in that field of view whether harman exists within the image, and further for generating the distance between the display and the face of the user accordingly into predetermined field of view, and the image is located in front of the screen in that field of view whether harman exists within the image, and is separated by claim generated of science is separated by claim generated of science is separated by claim greated of claim. It is sufferning whether it destances is equal to a predetermined distance in greated of claim 14, thereo comprising determining whether the distance is not equal to the predetermined distance in greated of claim 14, there comprising restoration is not equal to the predetermined distance in greated of claim 15, wherein the gobinion restorating is defined by a distance between the display and a bo

#### 专利US7164432B1与该创新性描述的比对报告

	专利US/16	4432B1与该创新性描述的比对	被告
序号	专利US7164432B1	技术特征相似度 序号	读创新性描述
1	摘要  The present invention can realize an information processing apparatus and a method therefor which can prevent a degraded visibility even if the posture		
'	of the information processing apparatus is changed in order to provide better portability or to prevent surrounding persons from snooping in the middle		
	of a travel by displaying image information on a display surface and changing the display orientation by rotating the image information as required based on an angular component in a change of the posture of the display surface		
2	Also a medium causes an information processing apparatus to execute a program having a first step of displaying image information on a display		
3	surface  Also a second step of detecting an angular component in a change in the posture of the display surface		
4	Also and a third step of changing the display orientation by rotating the image information based on the angular component		
5	Also so that a degraded visibility can be prevented even if the posture of the information processing apparatus is changed in order to provide better		
6	portability or to prevent surrounding persons from snooping in the middle of a travel  Also thereby making it possible to readily use the information processing apparatus even in the middle of a travel		
	权利要求		
7 8	An information processing apparatus comprising: a display screen  posture detecting means for detecting an angular component of a change of posture of the display screen		
9	means for setting a first mode in which all of a plurality of separate images configured to be displayed on the display screen are to be rotated		
10	a second mode in which a selected image of the plurality of separate images is to be rotated		
11	and a third mode in which none of the plurality of separate images are to be rotated  means for selecting the selected image when the second mode is set		
13	and displaying direction control means for displaying the plurality of separate images on said display screen		
14	and for controlling a direction of display of the selected image by rotating the selected image according to the angular component of the change of posture of the display screen detected by the posture detecting means and not rotating at least one of the other of the plurality of images		
15	said displaying direction control means controls the direction of display of said selected image by rotating said selected image when the angular		
	component of the change of posture of the display screen detected by the posture detecting means remains unchanged for a predetermined time after the posture detecting means detects the angular component of the change of posture of the display screen		
16	a display screenposture detecting means for detecting an angular component of a change of posture of the display screen		
17	means for setting a first mode in which all of a plurality of separate images configured to be displayed on the display screen are to be rotated		
18	a second mode in which a selected image of the plurality of separate images is to be rotated  and a third mode in which none of the plurality of separate images are to be rotated		
20	a display screenmeans for selecting the selected image when the second mode is set		
21	anddisplaying direction control means for displaying the plurality of separate images on said display screen		
22	and for controlling a direction of display of the selected image by rotating the selected image according to the angular component of the change of posture of the display screen detected by the posture detecting means and not rotating at least one of the other of the plurality of images		
23	said displaying direction control means controls the direction of display of said selected image by rotating said selected image when the angular		
	component of the change of posture of the display screen detected by the posture detecting means remains unchanged for a predetermined time after the posture detecting means detects the angular component of the change of posture of the display screen		
24 25	The information processing apparatus according to claim 1 wherein said displaying direction control means displays a plurality of windows as the plurality of images		
26	and controls the direction of display of a selected window from the plurality of windows according to the rotation of the display screen		
27	said displaying direction control means displays a plurality of windows as the plurality of images, and controls the direction of display of a selected window from the plurality of windows according to the rotation of the display screen		
28	The information processing apparatus according to claim 1, wherein said displaying direction control means controls the direction of display of said		
29	selected image by rotating said selected image according to the rotation of the display screen beyond a predetermined range said displaying direction control means controls the direction of display of said selected image by rotating said selected image according to the rotation		
	of the display screen beyond a predetermined range		
30	The information processing apparatus according to claim 3, wherein said displaying direction control means controls the direction of display of said selected image by rotating said selected image when the display screen remains rotated beyond the predetermined range after a predetermined time		
31	said displaying direction control means controls the direction of display of said selected image by rotating said selected image when the display screen		
32	remains rotated beyond the predetermined range after a predetermined time  An information processing apparatus comprising: a display screen		
33	posture detecting means for detecting an angular component of a change of posture of the display screen		
34	means for setting a first mode in which all of separate images configured to be displayed on the display screen are to be rotated, a second mode in which an image of the separate images is to be rotated, and a third mode in which none of the separate images are to be rotated		
35	means for selecting the image when the second mode is set		
36	and displaying direction control means for displaying the separate images on said display screen		
37	and for controlling a direction of display of the image by rotating said image according to the angular component of the change of posture of the display screen detected by the posture detecting means and not rotating at least one of the other images		
38	wherein said displaying direction control means controls the direction of display of said image by rotating said image according to the change of		
	posture of the display screen beyond a predetermined range when the angular component of the change of posture of the display screen detected by the posture detecting means remains unchanged for a predetermined time after the posture detecting means detects the angular component of the		
39	change of posture of the display screen a display screenposture detecting means for detecting an angular component of a change of posture of the display screen		
40	a display screenposture detecting means for detecting an angular component of a change of posture of the display screen  a display screenmeans for setting a first mode in which all of separate images configured to be displayed on the display screen are to be rotated, a		
41	second mode in which an image of the separate images is to be rotated, and a third mode in which none of the separate images are to be rotated a display screenmeans for selecting the image when the second mode is set		
42	anddisplaying direction control means for displaying the separate images on said display screen		
43	and for controlling a direction of display of the image by rotating said image according to the angular component of the change of posture of the display		
44	screen detected by the posture detecting means and not rotating at least one of the other images  whereinsaid displaying direction control means controls the direction of display of said image by rotating said image according to the change of posture		
	of the display screen beyond a predetermined range when the angular component of the change of posture of the display screen detected by the posture detecting means remains unchanged for a predetermined time after the posture detecting means detects the angular component of the change		
	of posture of the display screen		
45	The information processing apparatus according to claim 5, wherein said displaying direction control means controls the direction of display of said image by rotating said image when the display screen remains rotated beyond the predetermined range after a predetermined time		
46	said displaying direction control means controls the direction of display of said image by rotating said image when the display screen remains rotated beyond the predetermined range after a predetermined time		
47	An information processing method comprising: a display processing step of displaying a plurality of separate images on a display screen		
48	a detection processing step of detecting an angular component of a change of posture of the display screen		
49	a mode setting step of setting a first mode in which all of the plurality of separate images are to be rotated, a second mode in which a selected image of the plurality of separate images is to be rotated, and a third mode in which none of the plurality of separate images are to be rotated		
50	a selection processing step of selecting the selected image when the second mode is set		
51	and a displaying direction control processing step of controlling a direction of display of the selected image by rotating the selected image according to the angular component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the		
52	other of the plurality of images said displaying direction control processing step further controlling the direction of display of the selected image when the angular component of the		
	change of posture of the display screen detected by the detection processing step remains unchanged for a predetermined time after the detection		
53	processing detects the angular component of the change of posture of the display screen a display processing step of displaying a plurality of separate images on a display screen		
54	a detection processing step of detecting an angular component of a change of posture of the display screen		
55	a mode setting step of setting a first mode in which all of the plurality of separate images are to be rotated, a second mode in which a selected image of the plurality of separate images is to be rotated, and a third mode in which none of the plurality of separate images are to be rotated		
56	a selection processing step of selecting the selected image when the second mode is set		
57	ands displaying direction control processing step of controlling a direction of display of the selected image by rotating the selected image according to the angular component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the		
	other of the plurality of images		
58	said displaying direction control processing step further controlling the direction of display of the selected image when the angular component of the change of posture of the display screen detected by the detection processing step remains unchanged for a predetermined time after the detection		
	processing detects the angular component of the change of posture of the display screen		
59	The information processing method according to claim 7, wherein said display processing step displays a plurality of windows as the plurality of images, and controls the direction of display of a selected window from the plurality of windows according to the rotation of the display screen		
60	said display processing step displays a plurality of windows as the plurality of images, and controls the direction of display of a selected window from the plurality of windows according to the rotation of the display screen		
61	The information processing method according to claim 7, wherein said displaying direction control processing step rotates said selected image		
62	according to the rotation of the display screen beyond a predetermined range said displaying direction control processing step rotates said selected image according to the rotation of the display screen beyond a predetermined		
	range		
63	The information processing method according to claim 9, wherein said displaying direction control processing step rotates said selected image when the display screen remains rotated beyond the predetermined range after a predetermined time		
64	said displaying direction control processing step rotates said selected image when the display screen remains rotated beyond the predetermined range after a predetermined time		
65	after a predetermined time  An information processing method comprising: a display processing step of displaying separate images on a display screen		
66	a detection processing step of detecting an angular component of a change of posture of the display screen		
67	a mode setting step of setting a first mode in which all of the separate images are to be rotated, a second mode in which an image of the separate images is to be rotated, and a third mode in which none of the separate images are to be rotated		
68	a selection processing step of selecting the image when the second mode is set		
69	and a displaying direction control processing step of controlling a direction of display of the image by rotating said image according to the angular component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the other images		
	wherein said displaying direction control processing step rotates said image according to the change of posture of the display screen beyond a predetermined range when the angular component of the change of posture of the display screen detected by the detection processing step remains		
	unchanged for a predetermined time after the detection processing detects the angular component of the change of posture of the display screen		
70	a display processing step of displaying separate images on a display screen  a detection processing step of detecting an angular component of a change of posture of the display screen		
72	a mode setting step of setting a first mode in which all of the separate images are to be rotated, a second mode in which an image of the separate		
73	images is to be rotated, and a third mode in which none of the separate images are to be rotated a selection processing step of selecting the image when the second mode is set		
74	anda displaying direction control processing step of controlling a direction of display of the image by rotating said image according to the angular		
	component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the other images whereinsaid displaying direction control processing step rotates said image according to the change of posture of the display screen beyond a		
	predetermined range when the angular component of the change of posture of the display screen detected by the detection processing step remains unchanged for a predetermined time after the detection processing detects the angular component of the change of posture of the display screen		
75	The information processing method according to claim 11, wherein said displaying direction control processing step rotates said image when the		
76	display screen remains rotated beyond the predetermined range after a predetermined time said displaying direction control processing step rotates said image when the display screen remains rotated beyond the predetermined range after a		
	predetermined time		
77	A computer-readable medium encoded with a program which causes an information processing apparatus to execute a processing, the processing comprising: a display processing step of displaying a plurality of separate images on a display screen		
78	a detection processing step of detecting an angular component of a change of posture of the display screen		
79	a mode setting step of setting a first mode in which all of the plurality of separate images are to be rotated, a second mode in which a selected image of the plurality of separate images is to be rotated, and a third mode in which none of the plurality of separate images are to be rotated		
80	a selection processing step of selecting the selected image when the second mode is set  and a displaying direction control processing step of controlling a direction of display of the selected image by rotating said selected image according		
81	to the angular component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the		
82	other of the plurality of images said displaying direction control processing step further controlling the direction of display of the selected image when the angular component of the		
62	said aspaying direction control processing step further controlling the direction or aspay or the selected image when the angular component of the change of posture of the display screen detected by the detection processing step remains unchanged for a predetermined time after the detection processing detects the angular component of the change of posture of the display screen		
	p. 222200 and angular component or the change of posture of the display screen		

	a display processing step of displaying a plurality of separate images on a display screen		
84	a detection processing step of detecting an angular component of a change of posture of the display screen		
15	a mode setting step of setting a first mode in which all of the plurality of separate images are to be rotated, a second mode in which a selected image of		
	the plurality of separate images is to be rotated, and a third mode in which none of the plurality of separate images are to be rotated		
6	a selection processing step of selecting the selected image when the second mode is set		
7	anda displaying direction control processing step of controlling a direction of display of the selected image by rotating said selected image according to		
	the angular component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the		
	other of the plurality of images		
88	said displaying direction control processing step further controlling the direction of display of the selected image when the angular component of the		
	change of posture of the display screen detected by the detection processing step remains unchanged for a predetermined time after the detection		
	processing detects the angular component of the change of posture of the display screen		
39	The computer-readable medium according to claim 13, wherein said displaying direction control processing step rotates said selected image according to the rotation of the display screen beyond a predetermined range		
90	said displaying direction control processing step rotates said selected image according to the rotation of the display screen beyond a predetermined rance		
91	The computer-readable medium according to claim 14, wherein said displaying direction control processing step rotates said selected image when the display screen remains rotated beyond the predetermined range after a predetermined time		
12	said displaying direction control processing step rotates said selected image when the display screen remains rotated beyond the predetermined range		
12	said displaying direction control processing step rotates said selected image when the display screen remains rotated beyond the predetermined range after a predetermined time.		
13	A computer-readable medium encoded with a program which causes an information processing apparatus to execute a processing, the processing		
	comprising: a display processing step of displaying separate images on a display screen		
14	a detection processing step of displaying separate images on a display screen		
	a detection processing step or detecting an angular component of a change of posture of the display screen  a mode setting step of setting a first mode in which all the separate images are to be rotated, a second mode in which an image of the separate images		
0	a mode setting step of setting a first mode in which all the separate images are to be rotated, a second mode in which an image of the separate images lis to be rotated, and a third mode in which none of the separate images are to be rotated.		
NS.	a selection processing step of selecting the image when the second mode is selected		
97	and a displaying direction control processing step of controlling a direction of display of the image by rotating said image according to the angular component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the other images		
98	said displaying direction control processing step rotates said image according to the change of posture of the display screen beyond a predetermined		
rd	said displaying direction control processing step rotates said image according to the change of posture of the display screen beyond a predetermined range when the angular component of the change of posture of the display screen detected by the detection processing step remains unchanged for a		
	predetermined time after the detection processing detects the angular component of the change of posture of the display screen		
19	a display processing step of displaying separate images on a display screen		
	a detection processing step of detecting an angular component of a change of posture of the display screen		
	a mode setting step of detecting all angular component of a change of posture of the display screen  a mode setting step of setting a first mode in which all the separate images are to be rotated, a second mode in which an image of the separate images.		
UI	a mode setting step of setting a first mode in which all the separate images are to be rotated, a second mode in which an image of the separate images is to be rotated, and a third mode in which none of the separate images are to be rotated.		
02	a selection processing step of selecting the image when the second mode is selected		
03	anda displaying direction control processing step of controlling a direction of display of the image by rotating said image according to the angular component of the change of posture of the display screen detected by the detection processing step and not rotating at least one of the other images		
04	said displaying direction control processing step rotates said image according to the change of posture of the display screen beyond a predetermined		
04	range when the angular component of the change of posture of the display screen detected by the detection processing step remains unchanged for a		
	predetermined time after the detection processing detects the angular component of the change of posture of the display screen		
05	The computer-readable medium according to claim 16, wherein said displaying direction control processing step rotates said image when the display		
00	screen remains rotated beyond the predetermined range after a predetermined time		
06	said displaying direction control processing step rotates said image when the display screen remains rotated beyond the predetermined range after a		
	and displaying direction control processing step rotated state rings with the display selection reference in the processing step rotated state in the display selection reference in the processing step rotated state in the display selection reference in the display selection reference in the processing step rotated state in the display selection reference in the processing step rotated state in the display selection reference in the		
07	An information processing apparatus comprising: a display screen		
08	a sensor configured to detect an angular component of a change of posture of the display screen		
09	a mode setting unit configured to set a first mode in which all of a plurality of separate images configured to be displayed on the display screen are to		
	be rotated		
10	a second mode in which a selected image of the plurality of separate images is to be rotated		
11	and a third mode in which none of the plurality of separate images are to be rotated		
	a selecting unit configured to select the selected image when the second mode is set		
	and a display direction control unit configured to display the plurality of separate images on said display screen		
14	and for controlling a direction of display of the selected image by rotating the selected image according to the angular component of the change of		
	posture of the display screen detected by the sensor and not rotating at least one of the other of the plurality of images		
15	said display direction control unit further configured to control the direction of display of said selected image by rotating said selected image when the		
	angular component of the change of posture of the display screen detected by the sensor remains unchanged for a predetermined time after the sensor detects the angular component of the change of posture of the display screen		
16	a display screen sensor configured to detect an angular component of a change of posture of the display screen		
17	a mode setting unit configured to set a first mode in which all of a plurality of separate images configured to be displayed on the display screen are to be rotated		
	a second mode in which a selected image of the plurality of separate images is to be rotated		
19	and a third mode in which none of the plurality of separate images are to be rotated		
	a display screena selecting unit configured to select the selected image when the second mode is set		
	anda display direction control unit configured to display the plurality of separate images on said display screen		
22	and for controlling a direction of display of the selected image by rotating the selected image according to the angular component of the change of		
	posture of the display screen detected by the sensor and not rotating at least one of the other of the plurality of images		
23	said display direction control unit further configured to control the direction of display of said selected image by rotating said selected image when the		
	angular component of the change of posture of the display screen detected by the sensor remains unchanged for a predetermined time after the		
	sensor detects the angular component of the change of posture of the display screen		
	The information processing apparatus according to claim 18		
25	wherein said display direction control unit is further configured to display a plurality of windows as the plurality of images		
26	and control the direction of display of a selected window from the plurality of windows according to the change of posture of the display screen		
27	The information processing apparatus according to claim 18, wherein said display direction control unit is further configured to control the direction of		
	display of said selected image by rotating said selected image according to the rotation of the display screen beyond a predetermined range		
28	The information processing apparatus according to claim 20		
29	wherein said display direction control unit is further configured to control the direction of display of said selected image by rotating said selected image		
	when the display screen remains rotated beyond the predetermined range after a predetermined time		