

REMARKS

Applicant has carefully reviewed the Office Action dated January 24, 2019. Applicant has amended Claims 1-8 and added new Claims 10-21 to more clearly point out the present inventive concept. No new matter has been added. Reconsideration and favorable action are respectfully requested.

Claim 1 has been amended to add the limitation wherein the controller is operable to perform a data integrity check after an access operation and, upon a failure of the data integrity check, remap the physical memory address space. Support for this can be found at paragraphs [0014], [0021], [0024], and [0025]. This remapping is for the purpose of endurance and, as such, after remapping, endurance will be increased. Further, new claims 10 – 21 further define this remapping as remapping from the MLC to the SLC, wherein the SLC is a higher endurance memory.

Claims 1 – 4 and 7 – 9 stand rejected under 35 U.S.C. §103(a) as unpatentable over the combination of Gorobets in view of Goodson. This rejection is respectfully traversed with respect to the claims as currently presented.

The Gorobets reference does not disclose or suggest a remapping operation wherein the remapping operation is for the purpose of improving the endurance. Rather, all that the Gorobets reference does is remap for wearability in accordance with a wearability algorithm. There is no integrity check that is performed for this operation. Further, there is no indication that the remapping of the physical address space will be from a memory element having a relatively lower endurance to another memory element having a relatively higher endurance. The Goodson reference does not cure this deficiency. Therefore, Applicant respectfully requests withdrawal of the 35 U.S.C. §103 rejection with respect to Claims 1 – 4 and 7 – 9.

Claim 5 has been rejected under 35 U.S.C. §103(a) in view of the additional reference Kund and Claim 6 has been rejected in view of the additional reference Chen. Claims 5 and 6 depend from Claim 1 and, therefore, for the reasons stated hereinabove, are believed to be allowable for the reasons described with respect hereinabove to Claim 1 and, therefore, Applicant respectfully requests withdrawal of the 35 U.S.C. §103 rejection with respect to Claims 5 and 6.

CONCLUSION

Applicant has now made an earnest attempt in order to place this case in condition for allowance. For the reasons stated above, Applicant respectfully requests full allowance of the claims as amended.

If any issues arise, or if the Examiner has any suggestions for expediting allowance of this Application, the Applicant respectfully invites the Examiner to contact the undersigned at the telephone number indicated below or at patents@naifeh.com.

Recognizing that Internet communications are not secure, Applicant hereby authorizes the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application by video conferencing, instant messaging, or electronic mail. Applicant understands that a copy of these communications will be made of record in the application file.

Respectfully submitted,

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Acting in a Representative Capacity
under 37 CFR 1.34

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