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1. **AN IMPROVED BELBIC CONTROLLER FOR PMBLDC MOTOR DRIVES USING EMOTIONAL LEARNING TECHNIQUES** (Patent filed on 20/07/2020 & Published 07/08/2020, Application No: **202041030788**, The Patent Office Journal No. 27/2020 dated 03/07/2020, Part 1 & Page No: 25061).

2. **SYSTEM FOR SOLAR POWERED AUTOMATED MULTITASKING ROBOT FOR AGRICULTURAL APPLICATIONS** (Patent filed on 17/06/2020 & Published 03/07/2020, Application No: **202041025510**, The Patent Office Journal No. 27/2020 dated 03/07/2020, Part 1 & Page No: 25061).

3. **A NOVEL METHOD FOR DETECTION OF QUALITY OF APPLES USING EDGE DETECTION APPROACH** (Patent filed on 15/06/2020 & Published on 19/06/2020, Application No: **202041025188**, The Patent Office Journal No. 25/2020 dated 19/06/2020, Part 1 & Page No: 23163).

4. **SYSTEM FOR AUTOMATIC FOG CLEANER FOR VISI COOLER** (Patent filed on 24/03/2020 & Published on 05/06/2020, Application No: **202041012783**, The Patent Office Journal No. 23/2020 dated 05/06/2020, Part 1 & Page No: 21067).

5. **HARVESTING MACHINE FOR TAPIOCA VEGETABLES** (Patent filed on 24/03/2020 & Published on 22/05/2020, Application No: **202041012787**, The Patent Office Journal No. 21/2020 dated 22/05/2020, Part 1 & Page No: 19505).

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9. **AUTOMATED NON INVASIVE BLOOD GROUP DETERMINATION AND CHOLESTEROL LEVEL USING IOT** (Patent filed on 10/02/2020 & Published on 21/02/2020, Application No: 202041005771, The Patent Office Journal No. 08/2020 dated 21/02/2020, Part 1 & Page No: 10231).

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11. **IMPROVED BLIND IMAGE STEGANALYZER PERFORMANCE USING CURVELET AND NOVEL THIRD ORDER SPAM FEATURES** (Patent filed on 21/01/2020 & Published on 31/01/2020, Application No: 202041002590, The Patent Office Journal No. 05/2020 dated 31/01/2020, Part 1 & Page No: 6059).

12. **A SMART MUSIC PLAYER BASED UPON THE MOOD OF A USER USING AI TECHNIQUES** (Patent filed on 20/11/2019 & Published on 06/12/2019, Application No: 202041003413, The Patent Office Journal dated 06/12/2019).

13. **SMART SELF POWER GENERATING AND MOVING TRASH COLLECTOR** (Patent filed on 24/08/2018 & Published on 31/08/2018, Application No: 201841031865, The Patent Office Journal No. 35/2018 dated 31/08/2018, Part 1 & Page No: 32720).

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