بسم الله الرحمن الرحيم

[وَكَذَلِكَ أَوْحَيْنَا إِلَيْكَ رُوحاً مِنْ أَمْرِنَا مَا كُنْتَ تَدْرِي مَا الْكِتَابُ وَلا الْأِيمَانُ وَلَكِنْ جَعَلْنَاهُ نُوراً نَهْدِي بِهِ مَنْ نَشَاءُ مِنْ عِبَادِنَا وَإِنَّكَ لَتَهْدِي إِلَى صِرَاطٍ مُسْتَقِيمٍ صِرَاطِ اللَّهِ الَّذِي لَهُ مَا فِي السَّمَاوَاتِ وَمَا فِي الْأَرْضِ أَلا إِلَى اللَّهِ تَصِيرُ الْأُمُورُ]

سورة الشورى الاية : 52-53

Dedication

I dedicate this search to my

Father…

Mother…

Husband….

Daughters…

ACKNOWLEDGMENTS

The Messenger of Allah say:-
who does not thank Allah does not thank the people .I express sincere thanks to all who helped me to complete this research, and single out for thanks to supervisors Dr. Abdul Rasul, who gave me all the instructions also to the Ministry of Irrigation and Water Resources , I also thank my family parents, husband and my daughters.

Abstract

Agriculture is the most important elements to support the human life, where both human and animal are depends on it. The development of irrigation means filling the minds of many scientists and researchers, the ancient man was used the old irrigation, which needs a lot of effort and hardship. It was necessary to develop manual of irrigation and using of modern technology.

In this study one of these modern methods. Which is comprise of two mobile devices and electronic circuit (including dual-tone multi-frequency, Darlingtona arrays, Valves quench).

The methodology of the circle depend on a two-Mobile, one in the user's hands (1) and the other (2) in the field or area to be irrigated command is sent from mobile number one through the keyboard to the mobile number two, which is received and sends it to the interface associated with him directly, which is processing the command and send it to one of the four valves Perfusion where open or closed by sending it to them.

The use of modern techniques in irrigation, particularly in remote areas and desert areas which are difficult to live there is a successful solution has to be addressed and developed.

الملخـ ـ ـ ص:-

تعتبر الزراعه من اهم العناصر الداعمه للحياه البشريه إذ يعتمد عليها كل من الانسان والحيوان فى غذائيه . إن تطور وسائل الرى شغل عقول كثير من العلماء والباحثين ، فالانسان القديم كان يستخدم الرى اليدوى الذى يحتاج لكثير من الجهد والمشقه . فكان لابد من تطوير وسائل الارواء واستخدام التقنيه الحديثه .

يتضمن هذا البحث إحدى هذه الوسائل الحديثه. والتى تتمثل فى استخدام جهازين موبايل ودائره الكترونيه (تشمل نغمة المزدوجة المتعددة الترددات، صفائف دارلينقتون،صمامات ارواء).

تعتمد طريقه عمل هذه الدائره على وجود جهازين موبايل إحداهما فى يد المستخدم (1) والاخر (2) فى الحقل او المنطقه المراد إرواءها يتم ارسال الامر من الموبايل رقم واحد عن طريق لوحه المفاتيح الى الموبايل رقم اثنين والذى يتسلمه ويرسله الى الدائره المرتبطه معه مباشره والتى تتم فيها معالجه الامر وارساله الى إحدى صمامات الارواء الاربعه حيث تفتح او تغلق حسب الامر المرسل لها.

إن استخدام التقنيات الحديثه فى الارواء وخاصه فى المناطق النائيه والمناطق الصحراويه التى يصعب العيش فيها يعتبر حلاً ناجحاً يجب الاهتمام به و تطويره

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Abbreviation

Abbreviation Name	*Abbreviation*
AMPS	**Advanced mobile phone system**
BCD	**Binary code decibel**
CDMA	**Code Division Multiple Access**
DTMF	**Dual tone muli frequency**
EDGE	**Enhanced date GSM environment**
FSK	**Frequency shift keying**
1G	**First generation**
2G	**Second generation**
2.5G	**Have and second generation**
3G	**Third Generation**
4G	**Fourth Generation**
GSM	**Global system for mobile communication**
GPRS	**General packet radio service**
HSPA	**High speed down link packet access**
IC	**Integrated circuit**
IEEE	**Institute of Electrical Electronic Engineering**
IMEI	**International mobile equipment identify**
IMT 2000	**International mobile communication**
ITU	**International telecommunication union**
LEPA	**Low energy precision application**
LTE	**Long term evaluation**
MMS	**Multimedia massaging servis**
NMT	**Nordic mobile telephone**
PLMN	**Public land mobile network**
PSTN	**Public switched telephone network**
SMS	**Short message service**

Abbreviation Name	*Abbreviation*
SIM	**Subscriber identity module**
TACS	**Total access communication system**
TDMA	**Time division multiple access**
TMSI	**Temporary mobile subscriber identity**
UMTS	**Universal mobile telecommunication system**
VHF	**Very high frequency**
WLAN	**Wireless Local Area Network**