የኢትዮጵያ አዕምሯዊ ንብረት ባለስልጣን

ETHIOPIAN INTELLECTUAL PROPERTY AUTHORITY

የአዕምሯዊ ንብረት ጋዜጣ

INTELLECTUAL PROPERTY GAZETTE

ቅጽ 21፣ ቁጥር፣2 — ጥቅምት 30,2017

Vol. 21. No.2 — November.09,2024

በየወሩ የሚታተም

Published every months

በህዝብ ዘንድ
የአአምሯዊ ንብረት
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አንዲዳብር አንሰራለን።



የኢትዮጵያ አዕምሯዊ ንብረት ባለስልጣን
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Ethiopian Intellectual Property Authority

መግቢያ

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በግልጋሎት ሞዴልና ቢብሎግራፊ መረጃዎች እና የፈጠራ ስራ የተቃውሞ ጥሪ ማስታወቂያዎች ሥር **28 የተቃዉሞ ጥሪ የግልጋሎት ሞዴል ማስታወቂያዎች እና 10 ጥበቃ ያገኙ የግልጋሎት ሞዴል ስራዎች ሰርተፊኬት** ተስተናግደዋል፡፡

በተመረጡ የቴክኖሎጂ መረጃዎች አምድ **/BIOMETRIC TURNSTILE GATE/** በሚል ርዕስ በፖተንት ሰነድ የታቀፈ የቴክኖሎጂ መረጃ በናሙናነት ቀርቧል፡፡

በዚህ አጋጣሚ ለውድ አንባቢያን፣ ተመራማሪዎች፣ የቴክኖሎጂ ባለሙያዎች፣ የፈጠራ ባለሙያዎችና ኢንቨስተሮች ለመግለጽ የምንወደው በጽ/ቤታችን እነዚህን የመሳሰሉና በሌሎችም መስኮች ለሀገራችን የቴክኖሎጂ ልማትና እድገት የሚረዱ በፖተንት ሰነድ የታቀፉ በርካታ የቴክኖሎጂ መረጃዎች ክምችትእንዳለና መረጃዎቹም ለማንኛውም ተጠቃሚ ክፍት እንደሆኑ ነው፡፡

Introduction

Under this publication, Utility Model and Industrial Design Rights Granted/Bibliographic Information, and Utility Model Cautionary Notices, Registered Domestic and Foreign Trade Marks and Selected Technological Information columns are addressed.

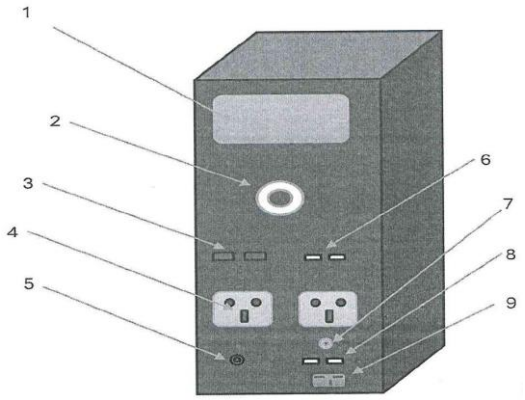
In the Utility Model Rights Granted Bibliographic Information, and Utility Model Cautionary Notice section, **28 Utility Model Cautionary notice abstracts and 10 Granted Utility Model** applications are made Public.

Full texts of technological information contained in Patent documents are also dealt with under selected Technological Information Columns.

We would like to remind our readers, researchers, technologists, inventors, and investors that we have a lot of technological information contained in patent documents in our Office which can be accessed by any user.

አመልካች Fedesa Shuma Tasisa አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን፤ በተባለው ጊዜ ውስጥ የተቃውሞ ማመልከቻውን ካላቀረበ በሕጉ መሠረት ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **Multifunctional Uninterrupted Power Supply/UPS/.** The invention relates to an uninterrupted power supply (ADVANCED UPS) system capable of providing continuous power for a duration of 5 hours to 30 days on a single charge. The system operates within a power range of 300W to 3KW using a specialized high-capacity battery efficient energy management system and advanced control mechanisms to ensure extended runtime. The ADVANCED UPS is designed for both residential and industrial use offering seamless power during outages.

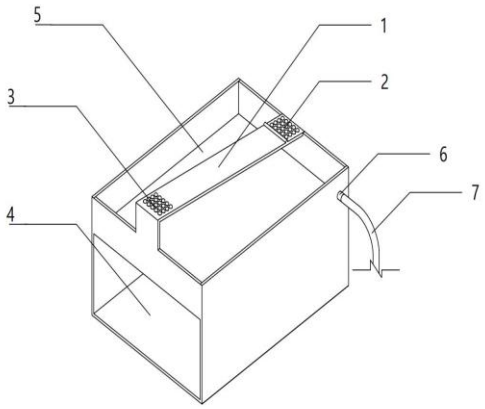


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አመልካች ያቆብ በላይ አድማሱ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን፤ በተባለው ጊዜ ውስጥ የተቃውሞ ማመልከቻውን ካላቀረበ በሕጉ መሠረት ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **የሊስትሮ እቃ** ነው። ይህ ፈጠራ ለአካባቢ ተስማሚ የሆነ የሊስትሮ ዕቃ ሲሆን በዋናነት የማያንሸራትት የጫማ መርገጫ እና ፈሳሽ ከጫማ መርገጫ ወደ ውጭ (መስሪያ ቦታ) እንዳይፈስ የሚያደርግ ማገጃ (1፡2)፣ ጫማ የሚያስጠርገው ሰው እግር ወደፊት እና ወድኋላ እያለ እንዳያስቸግር የሚረዳ ሸካራ የሆነ ክፍል (3)፣ ቀለም፣ እስፖንጅና ቡርሽ ማስቀመጫ (4)፣ ጫማ ሲጠረግ የሚወጣ ፈሳሽ ቆሻሻ እና አፈር መቀበያ (5)፣ ፈሳሽ ቆሻሻ ማስወገጃ ቀዳዳ እና ፈሳሽ ቆሻሻ ወደ አቅራቢያ ማፋሰሻ ድሬኔጅ የሚወስድ (6፣7) የፕላስቲክ ቱቦ እንዲኖረው ተደርጎ የተሰራ የአካባቢ ብክለትን የሚከላከል፣ለተገልጋይ ምቹ የሆነ የሊስትሮ ዕቃ ነው።

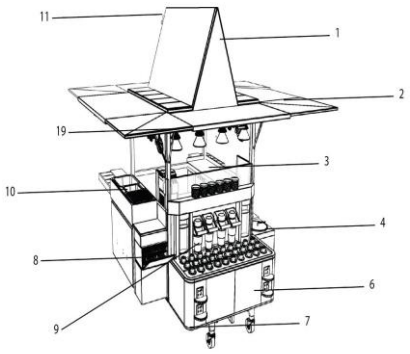


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አመልካች ደረጀ ረጋሳ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን፤ በተባለው ጊዜ ውስጥ የተቃውሞ ማመልከቻውን ካላቀረበ በሕጉ መሠረት ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው ተንቀሳቃሽ የምግብ ማብሰያና የቡና ማፍያ ማሽን ነው። ይህ ፈጠራ ከሚያገኘው የሲሊንደር ጋዝና የባትሪ ሃይል ወደ ኤሌክትሪክ ሃይል ቀይሮ የተለዩ አገልግሎቶችን የሚሰጥ የኤሌክትሪክ ክፍሎች ያሉት ተንቀሳቃሽ የምግብና የቡና መሳሪያ /3/ ግረል የምግብ ማብሰያ /11/ ውሃ ማጠራቀሚያ ክፍል ወደ ተለያዩ የውሃ ክፍል መውሰጃ መስመር /7/ ተጨማሪ የባትሪ ሃይል ወደ ኤሌክትሪክ የሚቀየር ክፍል /8/ ሲኒ ብርጭቆን አጥቦ አድርቆ ማቅረቢያ ክፍል /4/ ማንዋል የቡና አቆላል ዘዴ የተገጠመለት መሳሪያው ተንቀሳቃሽ ተጨማሪ የባትሪ ሃይል የሚጠቀም ክፍል የሚሰሩ ክፍሎችን ያሟላ ተንቀሳቃሽ መሳሪ ነው።

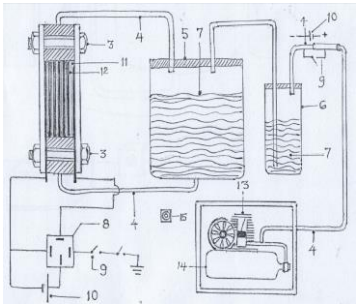


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አመልካች ሔኖክ መልካሙ ግርማ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን፤ በተባለው ጊዜ ውስጥ የተቃውሞ ማመልከቻውን ካላቀረበ በሕጉ መሠረት ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **ውሃን ወደ ነዳጅ የሚቀይር ድራይ ሴል መሳሪያ** ነው። ይህ ፈጠራ ውሃን ወደ ነዳጅ የሚለውጥ ማሽን ሆኖ የሶዲየም ሃይድሮ አክሳይድ ውህድ ውሃ መያዣ (5) የማይዝጉ ጠፍጣፋ ብረቶች (12) የማይዝጉ ጠፍጣፋ ብረቶች ተነባብረው በመካከላቸው ክፍተት መፍጠሪያ ሜምብሬን (ቆዳ) (11) ባትሪ፣የሃይድሮጂን እና የኦክስጂን ጋዞች የሚመላለሱበት ቅጥል ቱቦ (4) የውሃ ተን የሚያጣራ ውሃ መያዣ (6) የያዘ ሲሆን ውሃው ወደ ነዳጅነት መለወጥ ሲፈልግ ማሽኑን በመጠቀም በውሃ ውስጥ ያለውን የሃይድሮጂን እና የኦክስጂን ሞለኪዩል በመለየት ሃይድሮጂን ጋዝ እንደ ነዳጅ መጠቀም የሚያስችል ማሽን ነው።

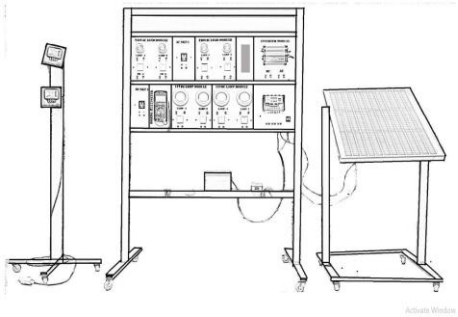


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አመልካች Ermias Mekonnen Gebreselassie አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን፤ በተባለው ጊዜ ውስጥ የተቃውሞ ማመልከቻውን ካላቀረበ በሕጉ መሠረት ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **Portable Biogas Digester.** The invention is a Portable Biogas Digester - made out of fiberglass and/or plastic material - with a condensed water vapor trap and release valve 6, a condensed water vapor removable storage unit 7 and a gas purification unit 8 built into it. It will enable users for the first time to move a Biogas Digester, to remove condensed water vapor from inside the gas pipes in an efficient manner, and to automatically purify the gas output of the biogas digester.



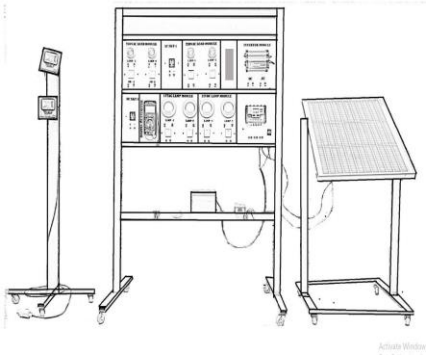
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አመልካች Melkamu Nibret Yezengaw አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን፤ በተባለው ጊዜ ውስጥ የተቃውሞ ማመልከቻውን ካላቀረበ በሕጉ መሠረት ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **solar Photovoltaic Trainer Module.** The invention The Solar PV Trainer Module is an innovative educational tool designed to provide hands-on training in solar photovoltaic (PV) system technology. This modular system integrates essential components, including solar PV panel /11/, 12VDC lamp load module /6/ , 230VAC lamp load module /1/, inverters module /4/, charge controllers module /5/, battery charger module /3/, AC socket module /2/, DC socket module /8/, digital multimeter /7/, on/off

switch /12/, LED AC light /10/ metal structure for main trainer module /13/, roller to move the trainer module /14/ and batteries /9/, allowing users to explore the fundamental principles of solar energy conversion and system design. The module facilitates a comprehensive learning experience by enabling users to conduct experiments on solar module performance, load connections, battery management, and the effects of environmental factors such as temperature and shading.

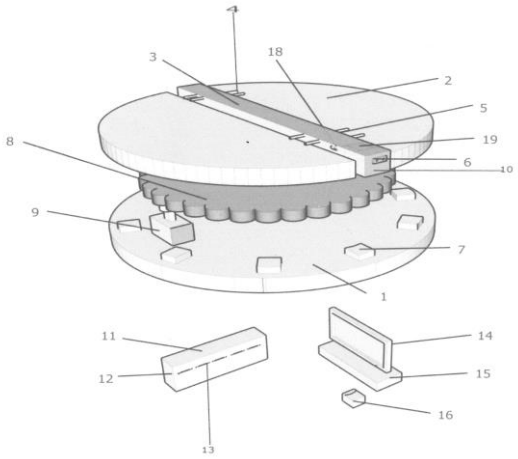


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አመልካች ግርማ ኃይሉ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **እስማርት ኢንተለጀንት የመኪና ፓርኪንግ** ነው። ይህ ፈጠራ ስማርት ኢንተለጀንት የመኪና ፓርኪንግ ሆኖ /1/ በሴንተሩ ላይ ወደላይ እና ወደታች የሚንቀሳቀስ የቴክኒክ ክፍል ተሸካሚ ሲሆን /2/ መኪና ሲገባ የሚቆምበት /3/ መኪና ሴንተር መያዙን የሚጠቁምና ለማንኛውም አይነት መኪና እግር መቆንጠጥ የሚችል እስማርት ኢንተለጀንት ቦክስ /4/ መኪና ከውጪ ሲገባ ብቻውን ከስማርት ቦክስ ውስጥ በመውጣት ገደብ የሚያደርግ /5/ መኪና ከገባ በኋላ አራቱንም የመኪና እግር መቆንጠጥ የሚችል ማሽን ነዉ።



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አመልካች ሙሉቀን ባህሩ ፍቃዱ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው A method of Preparing Soap that Dissolves Metal Paint with Water ነው። ይህ ፈጠራ ከፍተኛ ጥራት ያለው ሣሙና አዘገጃጀት ዘዴ ሆኖ በዋናነት ከቡና፣ አጃክስ፣ ሶዳ እና ሽቶን የሚያካትት ድብልቅ ነው። ድብልቁም ለእጅ፣ ለመኪና፣ ለጋራጅ ቤቶች፣ ለቤት ወለል የምንጠቀምበት ሳሙና እና የአዘገጃጀት ሂደት ነው።

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አመልካች Access Educational Materials አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **interactive Educational Apparatus and Methods of teaching language**, The invention The present invention provided interactive educational apparatus methods suitable for pre- school children. A set of symbol pieces, preferably in the form of letter different color blocks are provided. An interface board is provided for accommodating one or more selected symbol pieces and a magnetic pull on said interface board pull and hold on identifying each symbol piece when placed on the interface board. The apparatus is a magnetic board, allied board and lined board and a writing board where each board having intelligible reading units composed of different color movable letter. Each board has at least three different lengths and size, and each face of a given board shows the different color of movable letter type. Each board has a space that corresponds to the reading colored movable letter type. The reading board is colored to correspond to the letter object bearing the same reading board type. The method comprises reading the letter, writing letter and forming words on a selected board and locating letter having the on the selected reading board. The intended reading unit comprised of the selected reading board is read and assembled from the movable colored letter piece. Two or more letter piece is selected, having the identified reading board andconnected. The color or selected letter is viewed to determine whether the board forms the selected intended reading unit.

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አመልካች Asrat Anjelo Alembo አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

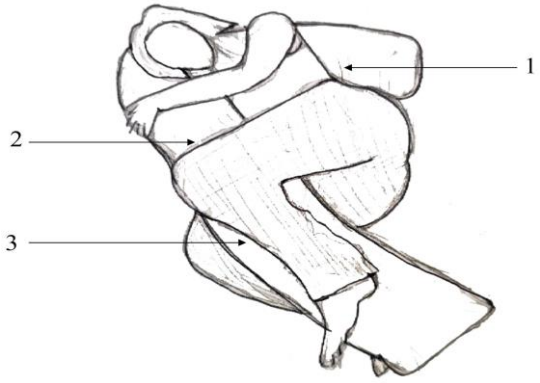
The minor invention is **Coffee Roasting and Grinding apparatus.** The invention focused on the One embodiment of the invention relates to apparatus (10) for roasting coffee beans, the apparatus comprising: an inner roasting chamber (11) in which a supply of coffee beans can be received for roasting; means (3) for heating air; and means (2) for driving heated air into the chamber (11) for roasting coffee beans received therein; wherein the air driving means (2) and chamber (11) are configured and arranged so that coffee beans located in the chamber (12) circulate generally horizontally about the periphery of the chamber (11) when the air driving means (2) drives heated air into the chamber (11).A roasting element (12) for roasting the coffee beans in said compartment; and a power control processor (13) comprising a control unit (**14) for** controlling the roasting element. Wherein, the power control processor (**13**) is adapted to determine a color change of the coffee beans, and the control unit (14) is adapted to control the roasting element as a function of the determined color change to brown.

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አመልካች ዳዊት ደስታ ታመነ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን፤ በተባለው ጊዜ ውስጥ የተቃውሞ ማመልከቻውን ካላቀረበ በሕጉ መሠረት ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **የእርግዝና ትራስ** ነው። ይህ ፈጠራ የእርግዝና ትራስ በመባል የሚታወቅ ሆኖ በዋነኝነት በእርግዝና ወቅት ነፍሰጥሮችን ለመርዳት ታስቦ የተሰራ የትራስ አይነት ሲሆን በተለያየ ቅረፅ የሚዘጋጁ ናቸው። ቅርፃቸዉም የአማርኛውን ፊደል "ሀ"፣ "ገ"፣ እንዲሁም "ጋ" ወይም "ር" ቅርፅ ሊይዙ የሚችሉና የሚሰራውም ከፖሊፕሮፓይሊን ፋይበር ሆኖ ከዚያም የተዘጋጀው ፋይበር በሚፈለገው ቅርፅ በተዘጋጀው ባለ ዚፕ ጨርቅ ውስጥ በመጠቅጠቅ ተሰርቶ ባለዚፕ ጨርቁ እየወለቀ ሊታጠብ የሚችል ይሆናል።



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አመልካች ሰሚር አብዱልቃድር መምሑር አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **ከተለያዩ እፅዋት የሚዘጋጅ የኪንታሮት መድሃኒት** ነው። ይህ ፈጠራ ከተለያዩ እፅዋት የሚዘጋጅ የኪንታሮት መድሃኒት የአሰራር ሂደት ሲሆን የተለያዩ እፅዋቶች እንደ ግብአትነት በመጠቀም እንዲዋሃድ በማድረግ በፈሳሽ (Enema) መልክ የሚዘጋጅ ለኪንታሮት (Hemorrhoid) በሽታ ያለ ምንም የጎንዮሽ ጉዳት ማከም የሚችል ፈሳሽ መድሃኒት ነው።

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አመልካች **ሰሚር አብዱልቃድር መሙሑር** አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **ከተለያዩ እፅዋት የሚዘጋጅ ለቁንጭር የሚውል መድሃኒት** ነው። ይህ ፈጠራ ከተለያዩ እፅዋት የሚዘጋጅ የቁንጭር መድሃኒት የአሰራር ሂደት ሲሆን የተለያዩ እፅዋቶች እንደ ግብአትነት በመጠቀም እንዲዋሃድ በማድረግ በ ቅባት (Ointiment) መልክ የሚዘጋጅ ለቁንጭር (Ointiment) በሽታ የሚውል ያለ ምንም የጎንዮሽ ጉዳት ማከም የሚችል መድሃኒት ነው።

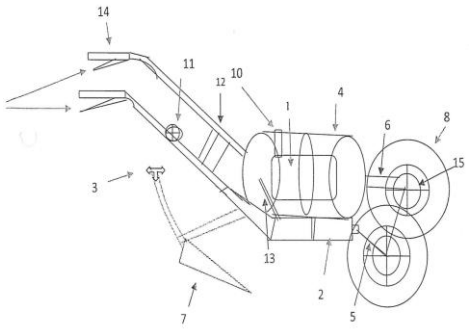
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አመልካች **አቤል አብይ ተሾመ** አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **በውሀ ኃይል የሚሰራ ዎክንግ** ነው። ይህ ፈጠራ በውሃ የሚሰራ ዎኪንግ ትራክተር Reciprocating Locomotive Engine የሚጠቀም ሆኖ የውሃ መያዣ // የአየር ሲሊንደር /2/ ቫልቭ /3/ ከሰል ወይም እንጨት የሚጠቀም የውሃ ማፍያ /4/ ሲሊንደር እና ፒስተን የሚያገናኝ ኮኔክተር /5/ ጎማ እና ጊር

የሚያገናኝ ሰንሰለት /6/ ማረሻ ሞፈር /7/ ጎማ /8/ የጉልበትና ፍጥነት መቆጣጠርያ /9/ የውሃ ማስገቢያ /10/ የሙቀት አና ግፊት መቆጣጠርያ // ሲሊንደር አና ውሃ ማጠራቀሚያውን የሚሸከም ብረት ወይም Chassis /12/ አየር ማስተላለፍያ ቱቦዎች /3/ እጀታ /4/ የያዘ ሆኖ ማንኛውም ሰው ውሃ ብቻ በመጨመር ማረስ የሚያስችለው ማሽን ነው።



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አመልካች ካሳ አሲኖ እና አብዱዲን ጀማል, አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

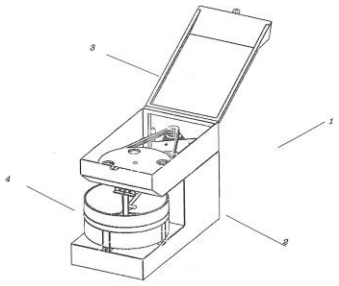
አነስተኛ ፈጠራው **ለቢራ ፋብሪካ ግብዓት የሚሆን ሚጋር ሆፕ አዘገጃጀት ዘዴ** ነው። ይህ ፈጠራ ሚጋር ሆፕ /Migar Hop/:- ማለት የእጸዋት /ዛፍ/ አይነት ሆኖ ፍሬውን በመልቀም፤ በማድረቅ፤ በመፍጨት፤ በማቡካት፤ እና የተቦካውን በማድረቅ ወደ ዱቄትነት በመቀየር፤ ዱቄቱን በመጠቀም፤ ከአልኮል ነጻ እና አልኮል ያለው የቢራ መትመቂያ ቅመም የሚሰራበት ግባት ነው።

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አመልካ, Gashaw Edeo Godana አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **ARotor Dough Mixer Machine.** A rotor for a mixing machine for food doughs is provided. The rotor has a circular base formed of an arms and a mixing spiral paddles restrained to the arms. The invention discloses a dough mixing machine, including a main body on which a dough mixing component is mounted the dough mixing component comprises a container, the container provided with dough mixing bowl with a cover, in which a dough mixing drive shaft is set passing through a mounting hole on the bottom of the bowl and connecting to the main body at the lower end; a bidirectional dough mixing hook with a center shaft is mounted on the upper end of the dough mixing drive shaft; a first dough mixing hook and a second dough mixing hook with asymmetric structure are oppositely set on the center shaft and a center scraper is connected to the bottom of the center shaft. The dough mixing machine. effectively ensures the stationarity during rotation operation of food processing, and the efficiency is two times as fast as that of unidirectional dough mixer hook.



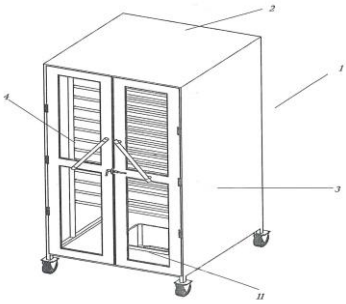
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አመልካች Gashaw Edeo Godana አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **Boiler Heating Dough Rising Oven**. A movable bread dough rising oven is disclosed that can be assembled for warming bread dough during rising and a four feet is provided at the bottom wall for easy transport and storage. The oven can be large enough to hold a large mixing bowl or several bread pans. A multi-position switch or thermostat can be used to maintain the internal temperature at a desired value between 80 and 120 degrees Fahrenheit. Ventilation channels can be cooperative with the thermostat.

Lights can indicate power on, heater on, desired temperature reached and/or safety mechanism activated. Hinges can connect the top member and the middle member to the bottom, for easy assembly and storage. The oven is affordable for home bakers. The middle member is composed of iron rack and hanging hinges that snap rack together, thereby further minimizing the cost.

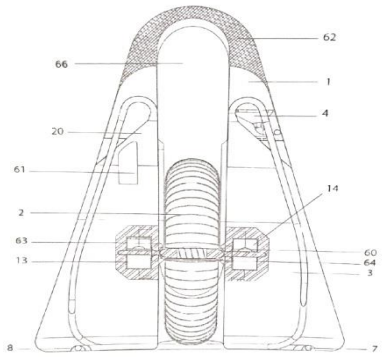


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አመልካች Mulugeta Taye Tessema አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **Coffee Roasting Machine.** This invention relates to a coffee roasting machine, comprising a lid (1) that is placed on the chamber (3) where water is poured in to it through the cup (4) when opened, and where the mixer (2) is placed at the lower center part of the void (66) and placed between and on the left side propeller (13) and right side propeller (14) to spin along the horizontal axis of rotation by the exertion of a steam pressure that is generated by an external heat source on the left side propeller and right side propeller through the left side chamber tube (7) and right side chamber tube (8). A machine designed by such an operational mechanism and configuration makes it possible for the first time to roast coffee automatically and efficiently.



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አመልካች ንጉሱ ዘሪሁን፣ መሀመድ ያሲን፣ አብርሃም ይልማ እና ዳዊት አለምነህ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው **ለሰውነት ግንባታ የሚውል የዳንቤል እና ባርቤል የአዘገጃጀት ዘዴ** ነው። ይህ ፈጠራ ለሰውነት ግንባታ የሚወል የዳንቤል እና ባርቤል የአዘገጃጀት ዘዴ ሆኖ በዋናነት ከሲሚንቶ ጠጠር/ፊኖ/፣ አሸዋ፣ የአርማታ ኬሚካል /Ademiture/ ብረት (ቱቦላሬ)፣ ሚስማር፣ ሽቦ፣ ቡሽ፣ ውሃ ማስቲሽ፣ ቀለም፣ እስፕሬ፣ በስተጨረሻም ለዳንቤል እና ባርቤል አዘገጃጀት የሚውሉ ግብቶች ማዘጋጀት ነው።

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አመልካች Biniam Assegid Kebede አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **A Modern and Durable Multi-Functionl Jebena.** The modern jebena (Figure 1) in a first embodiment works as a conventional Jebena; the lower part (8) and the upper part (3) of the modern jebena are made with stainless steel are removably joined by a quick connection means and with interposition of annular sealing means. The internal parts of the modern jebena (487), made with stainless steel, are also removably joined by a quick connection means and with interposition of annular sealing means which are the integral parts of the modern jebena that provides the means to make Moka coffee.



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አመልካች ሃብቶም ገ/መስቀል ተ/ሁነኝ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው Method of Sugar Cane Candy preparation ነው። ይህ ፈጠራ የሸንኮራ አገዳ ቅርፊት በመላጥና ለጉርሻ እንደሚመች በመቆራረጥ ብርሃን በማያስገባ ማሸግያ ታሽጎ ለገበያ የሚቀርብ ምግብ ነው። ለመዓዛው ፣የሙዝ፣ብርቱናኳንና ማንጎ ወይም የሌሎች ፍራፍሬዎች መዓዛ መቀላቀል ይቻላል።

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አመልካች ABDELLA MOHAMMED አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

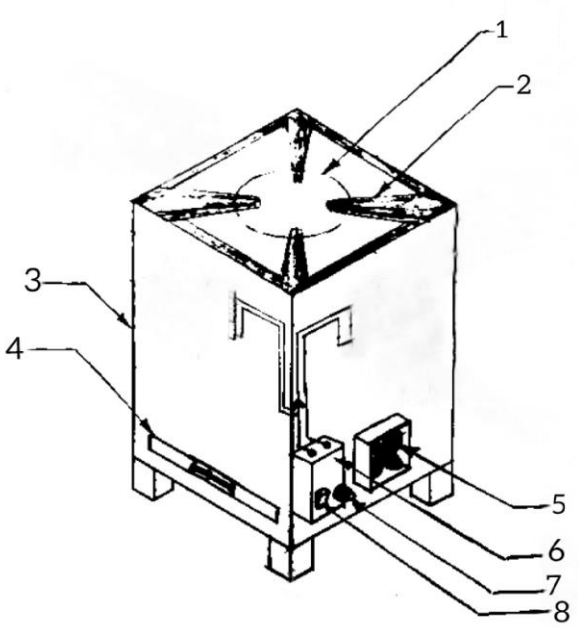
The minor invention is **Refreshing Oral Rinse (Mouthwash) Composition for Enhanced Mouth Care.** The present invention discloses a novel mouthwash composition that effectively enhances oral hygiene through a unique blend of antimicrobial, teeth whitening and refreshing agents. The formulation comprises 2-6% hydrogen peroxide for its potent oxidizing properties, 0.01- 3% peppermint oil for a refreshing taste and breath freshening, and 0.01-5% EDTA disodium as a chelating agent, which improves stability. Additionally, the composition incorporates 0.01-3% sorbitol to provide moisture retention and further stability, 1-3% ethyl alcohol for its antiseptic qualities, and an organic or mineral acid, selected from the group consisting of phosphoric acid, citric acid, and ascorbic acid (0.01-1%), to enhance efficacy. Clove oil (0.01-3%) is also included for its natural antibacterial properties, while de-ionized or distilled water (75.5-95.94%) serves as the solvent. This novel composition not only promotes oral health but also offers a superior cleansing experience, representing a significant advancement in oral care formulations.

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አመልካች ኢማዱዲን መሐመድ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **Energy Efficient Modern Stove.** This innovative stove is an energy efficient volcanic rock powered stove that includes a burner (1) fan (5) battery (6) speed controller (7) switch (8) supporting metal (2). This stove will get the air needed for combustion through a fan. It has a battery installed inside the stove to power the fan and it is a modern stove that charges the battery using solar or other electrical options.



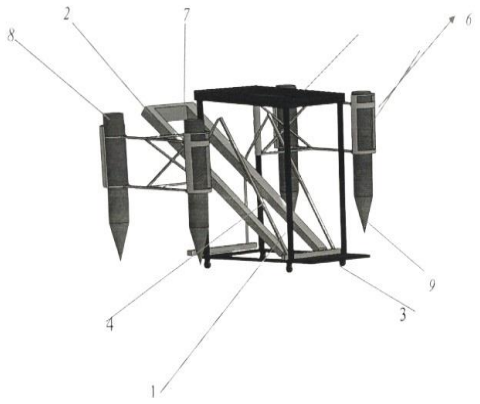
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አመልካች Chalachew Dagnew Yehuala አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **Manually Operated Onion Transplanted Machine.** This invention for manually Operated Onion Trans planter Machine basically have manufactured in fig 1: main frame (1), delivery tube (2), wheel (3), handle of machine (4), try plate form (5), marker(6), hand lever (7), foot lever (8) and jaw(9) are manufactured to manually operated translate onion seed for manual plant machine for farmers.

A transplanter machine is an agricultural machine for transplanting seedlings to the field by reduces cost and weight of present fabricated onion transplanter machine.



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አመልካች ብርሃን አሳየ አንለይ አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው ከእንስሳት ተዋጽኦ፣ ከአዝዕርት፣ ከአትክልት እና ፍራፍሬ የሾርባ አዘገጃጀት ዘዴ ነው። ይህ ፈጠራ ከእንስሳት ተዋጽኦ፣ ከአዝዝርት፣ ከአትክልት እና ፍራፍሬ የሾርባ አዘገጃጀት ዘዴ ሆኖ በዋናነት ካሮት፣ ድንች፣ የአበሻ ጎመን፣ ቆስጣ፣ አጃ ፣ ስንዴ፣ ሽምብራ፣ የአሳ ስጋ፣ ቀይ ጤፍ፣ ቦቆሎ ፣ የደጉሳ ፣ የገብስ

እንቁላል፡ ወተት በማዋሀድ፣ ብርቱካን እንደ ማያያዣነት በመጨመር የሚዘጋጅ በተለይ ለህፃናት እና ለነፍሰጡር እናቶች ሰውነትን የሚገነባ እና የአዕምሮ እድገትን የሚታደግ የምግብ አዘገጃጀት ዘዴ ነው።

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አመልካች Melaku Debas Kebede/Asst. Prof/, Elshaday Tilahun Melaku and Tigist Tilahun Melaku አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

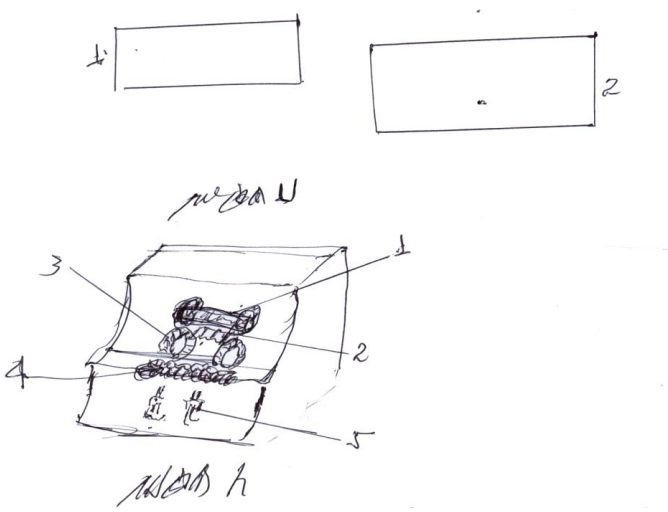
The minor invention is **Production of Floor Tile from Gypsum/Red Gravel/, Sisal Fiber and Used Plastic**. This invention production of floor tile from gypsum/red gravel/, sisal fiber and used plastic is on production of floor tile from gypsum/red gravel/, sisal fiber and used plastic by melting the mixture of gypsum/red gravel at a temperature of 235 degree centigrade. Plastic water and oil bottles are used at a ratio of 50:50. Sisal fiber is added to the mold before the melted mixture is poured into the mold. The addition of sisal fiber gives the floor tile a higher strength and avoids cracking as the melted mixture gets cool.

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አመልካች **ሽራው ጽጌ ወ/ማርያም** አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

አነስተኛ ፈጠራው የገንዘብ መቁጠሪያ ማሽን አቧራን ማስወገጃ ማሽን ነው። ይህ ፈጠራ የግሪስ ቅባት እና ክሬምን ለብር መቁጠሪያ ማሽን ተሽከርካሪን ጎሚኔዎችን መቀባትና የተቀባውን ማድረቅ የሚያስችል ቪዛ ካርድ ነው። 1ኛው ካርድ የጎሚኔዎቹ አካል የሚያለሰልስ የግሪስ ቅባት የያዘ ሆኖ እየቀባ ወደ ውሰውጥ የሚገባ ነው። 2ኛው ካርድ ግሪስ ወይንም ክሬም የተቀባውን የጎሚኔ አካል የሚጠርግ እና ከላዩ ላይ እርጥበት እንዳይኖረው የሚያደርግ ነው።



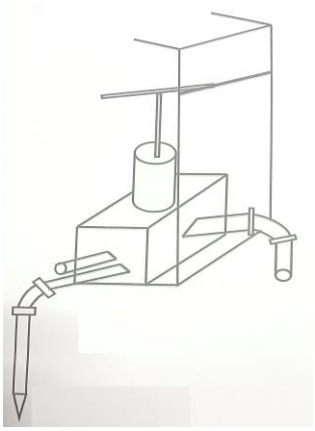
ET/UM/2024/4655

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አመልካች Haftom Gebrehiwet Gereziher አጭር ይዘቱ ከታች ለተመለከተው አነስተኛ ፈጠራ የግልጋሎት ሞዴል የምስክር ወረቀት እንዲሰጣቸው የጠየቁ በመሆኑ ይህ አነስተኛ ፈጠራ የእኔ ነው ወይም ከዚህ በፊት በኢትዮጵያ ውስጥ ጥቅም ላይ ውሏል ባይ ካለ ይህ ማስታወቂያ በጋዜጣ ከወጣበት ቀን ጀምሮ ባሉት ስልሳ (60) ቀናት ውስጥ የተቃውሞ ማመልከቻውን ለኢትዮጵያ አእምሯዊ ንብረት ባለስልጣን ሊያቀርብ የሚችል መሆኑን እየገለጽን ባለስልጣን መስሪያ ቤቱ ለአመልካቹ የጥበቃ ማረጋገጫ ሠርተፊኬት የሚሰጥ መሆኑን ያሳውቃል።

The minor invention is **Movable Pump**. Immersing either the 7.5 cm internal diameter UPVC pipe or 4 internal diameter ppr pipe (1) to the water body or well then fixing the pipe with the GH pump (2) to stable and erect perpendicularly tying by joiner and pin (3). The next step will be joining or fixing the handling tube (6) with connecting rod (5) by T-fitting (4). Finally, When we lift up the connecting rod (5) by handling tube the plastic or

light plate (7) joined in the gate valve (8)and check valve (9) will be opened due to both water pressure and air pressure as a result water enter to UPVC pipe or stand pipe. Immediately, when pull down the connecting rod by handling the check valve (9) is constantly installed at the inlet of UPVC pipe to control back flow of water and the gate valve control flow of water and reduce pressure of water in pipe by entering air. Repeating this action will elevate water to delivery pipe (10). Spring (11) used to bouncing up and down the gate valve.



ET/UM/2024/4656

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INID CODES: Internationally Agreed Numbers for the Identification of Bibliographic Data

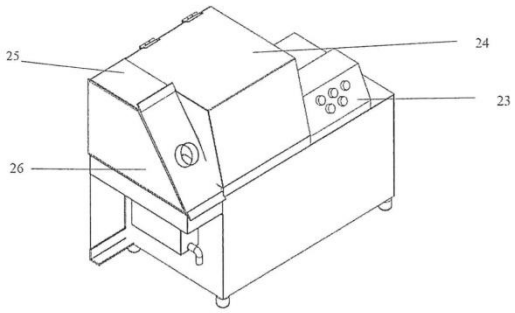
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11	የግ.ሞ ቁጥር		45	ምዝገባ ቀን		73	አመልካች
21	ማመልከቻ ቁጥር		51	ዓለም አቀፍ ምደባ		74	ወኪል
22	ማመልከቻ ቀን		54	የፈጠራው ርዕስ		57	አብስትራክት
30	የቀደምትነት መግለጫ		72	የፈጠራው ሠራተኛ			

11	**1166**
21	ET/UM/2022/4064
22	29/06/2022 እ.ኤ.አ.
30	የማመልከቻ ቀን የቀደምትነት ቀን ነው
45	09/10/2024 እ.ኤ.አ.
51	**A 23L 19/18**(2016.01)
54	ኃይል ሰጭ የሙዝ ቺፕስ አዘገጃጀት ዘዴ
72	ኤፍሬም ደበበ ቂርቆስ ክ/ከተማ፣ ወረዳ 8፣ የቤት ቁጥር 364 አዲስ አበባ [ET];
73	ኤፍሬም ደበበ ቂርቆስ ክ/ከተማ፣ ወረዳ 8፣ የቤት ቁጥር 364 አዲስ አበባ [ET];
74	
57	ይህ ፈጠራ ከፍተኛ ኃይልን የሚሰጥ የሙዝ ቺፕስ አዘገጃጀት ዘዴ ሆኖ በዋናነት ካልበሰለ ወይም በጥሬው ለመበላት ካልደረሰ ሙዝ፣ እርድ እና በአሊቭ አይል ወይም በኮኮናት አይል የሚዘጋጅ ሲሆን አዘገጃጀቱም ለዚሁ የሙዝ ቺፕስ ማዘጋጃ በተዘጋጀ ማሽን ላይ 2 (ሁለት) ሊትር ዘይት በ100 (አንድ መቶ) ዲግሪ ሴልሽስ ሲፈላ 50 ግራም እርድ እና 1000 (አንድ ሺ) ግራም በጥሬው ለመበላት ያልደረሰ ሙዝ በ2 (ሁለት) ሚሊ ሜትር ርዝምት በዚሁ ማሽን እየተቆረጠ ለ8 (ስምንት) ደቂቃ በመጥበስ ሙዝን በችፕስ መልክ የማዘጋጀት

	ዘዴ ነው፡ ፡

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11	**1167**
21	ET/UM/2022/4004
22	01/04/2022 እ.ኤ.አ.
30	የማመልከቻ ቀን የቀደምትነት ቀን ነው
45	28/10/2024 እ.ኤ.አ.
51	**C 13B 10/10**(2011.01), **C 13B 10/06**(2011.01)
54	Sugarcane Juice Extraction Machine
72	እንዳሻው ሻንቆ ቦሌ ክ/ከተማ ወረዳ 11, አዲስ አበባ ኢትዮጵያ [ET];
73	Manufacturing Technology and Engineering Industry Research and Development Center Bole Sub-City, Woreda 11, H.NO New, Addis Ababa, 1180 [ET];
74	Yared Abebe Addis Ketama Sub-City, Woreda 02 , Addis Ababa [ET];



57 Sugarcane juice-making machine is a machine that is used to extract juice from sugarcane. It is a small scale compactly-designed machine basically comprising of a powerhouse (4), Gearbox (1), rolling (crushing) chamber (3), temporary storage (2), and pouring unit (5). Power will be directly transmitted from the motor to the gearbox where the speed will be reduced 45 times to have final rpm of 30. The rolling chamber where the juice will be extracted is made of food-grade stainless steel. While the rest of the structure and body of the machine is made of galvanized steel and mild steel. A clearance adjusting mechanism has been fitted with the machine to provide a

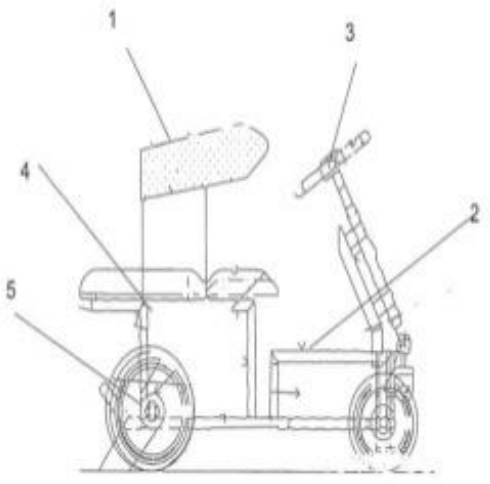
	different range of sugarcane sizes. 1.5kw motor is provided under the power house with complete set of control panel.

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11	**1168**	
21	ET/UM/2022/4089	
22	04/08/2022 እ.ኤ.አ.	
30	የማመልከቻ ቀን የቀደምትነት ቀን ነው	
45	31/10/2024 እ.ኤ.አ.	
51	**A 23L 23/00**(2016.01)	
54	የበለፀገ የሽሮ ወጥን ወደ ዱቄት የመቀየር ሂደት	
72	ንጋት አሸናፊ በሀብቱ እና ቢኒያም ተስፋዬ ባንጃው አዲስ ከተማ ክ/ከተማ፣ ወረዳ 08፣ የቤት ቁ. 110፣ አዲስ አበባ-ኢትዮጵያ [ET];	
73	ንጋት አሸናፊ በሀብቱ እና ቢኒያም ተስፋዬ ባንጃው አዲስ ከተማ ክ/ከተማ፣ ወረዳ 08፣ የቤት ቁ. 110፣ አዲስ አበባ-ኢትዮጵያ [ET];	
74		
57	ይህ የፈጠራ ስራ አቀዝቅዞ የማድረቅ ቴክኖሎጂን በመጠቀም (Freeze Drying Technology) ሽሮ ወጥን ወደ በረዶነት በመቀየር እና አነስተኛ የአየር ግፊትን በመጠቀም ሽሮ ወጥን በማድረቅ ወደ ዱቄትነት በመቀየር በቫይታሚን እና ማእድናት በማበልጸግ ለህብረተሰቡ ምቹ፣ጊዜ ቆጣቢ፣ተስማሚና ለረጅም ግዜ የሚቆይ የሽሮ ወጥ ዱቄት (Instant Shiro Stew Powder) ነው፡፡	

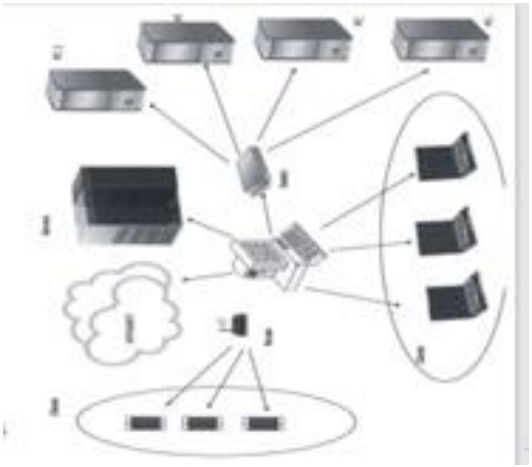
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11	**1169**	
21		

	ET/UM/2023/004368	
22	10/10/2023 እ.ኤ.አ.	
30	የማመልከቻ ቀን የቀደምትነት ቀን ነው	
45	28/10/2024 እ.ኤ.አ.	
51	**B 62M 7/00**(2010.01)	
54	Solar Powered Electric Motorcycle with Side Trolley	
72	Dr. Davinder Rathee, Dr.Demissie Jobira, Dr. Rathee and Dr. Worku Jifara, አዳማ ኢትዮጵያ [ET];	
73	አዳማ ሳይንስና ቴክኖሎጂ ዩንቨርሲቲ ኦሮሚያ ክልል፣ አዳማ-ኢትዮጵያ [ET];	
74		
57	The invention discloses a solar-powered electric Motorcycle with a side trolley. The motorcycle comprises: (1) a solar panel that converts sunlight energy into electricity in order to power the battery; A body frame (2) mechanical structure with all electrical and security components will be installed; (3) a display unit to show the whole system used and the whole motorcycle condition; (4) an incorporated side trolley structure fitted to a motorcycle that is detachable and attachable as per need; and (5) a rear pulley to propel the structure in the intended direction.	

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11	**1170**	
21	ET/UM/2022/4170	
22	28/12/2022 እ.ኤ.አ.	
30	የማመልከቻ ቀን የቀደምትነት ቀን ነው	

45	30/10/2024 እ.ኤ.አ.	
51	**G 06Q 20/42**(2012.01), **G 06Q 20/00**(2012.01)	
54	Method, System or Computer-Based Program of Fund Allocation for the Masses Based On Saving and Credit System.	
72	**መርህ ብርሃነ ተወልደ** **ልደታ ክፍለ ከተማ ወረዳ 08 የቤት ቁጥር 2204** **አዲስ አበባ ኢትዮጵያ** [ET];	
73	**መርህ ብርሃነ ተወልደ** **ልደታ ክፍለ ከተማ ወረዳ 08 የቤት ቁጥር 2204፤** **አዲስ አበባ ኢትዮጵያ** [ET];	
74		
57	A system, method and a computer implemented program for a saving and credit system from multiple sources furthermore, the invention focuses on a rotating of saving and credit system (EKUB) to enable participants to access their future lifetime saving as a loan at an early age with anytime entry to a running circle, infinite number of entries to any circle, compensating for the time value of money, allowing the masses to have access of their future lifetime saving for a productive investment. Compensating for frustration of being the last person in a group, waiting for circles to start or end, compensating for the waiting period until loan is ready and compensating for the access from different regions of a country or a common currency.	

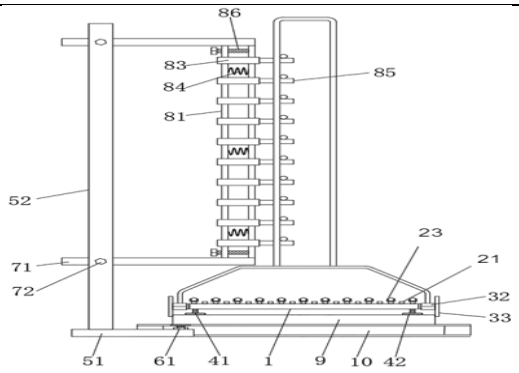
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11	**1171**	
21	ET/UM/2024/4461	
22	05/03/2024 እ.ኤ.አ.	
30	**የማመልከቻ ቀን የቀደምትነት ቀን ነው**	

45	30/10/2024 እ.ኤ.አ.	
51	**A 61N 7/00**(2006.01)	
54	Ultrasound Transmission Lubricant and Gel Formulation	
72	ABDELLA MOHAMMED Lemi Kura Sub City Woreda 03 House No. New, Addis Ababa [ET];	
73	VIRGINIA PHARMACEUTICALS Lemi Kura Sub City Woreda 03 House No. New, Addis Ababa [ET];	
74	ABDELLA MOHAMMED Lemi Kura Sub City Woreda 03 House No. New, Addis Ababa [ET];	
57	The present invention relates to an ultrasound transmission lubricant and gel formulation used for medical imaging procedures comprising Carbomer 940 or 980, Glycerol, Propylene Glycol, Triethanolamine, Ethylene diamine tetra acetic acid (EDTA), methyl paraben as a preservative, non-toxic Colorant, and Purified water. This formulation demonstrates excellent lubricating properties and enhances ultrasound image quality, making it ideal for use in medical diagnostic procedures.	

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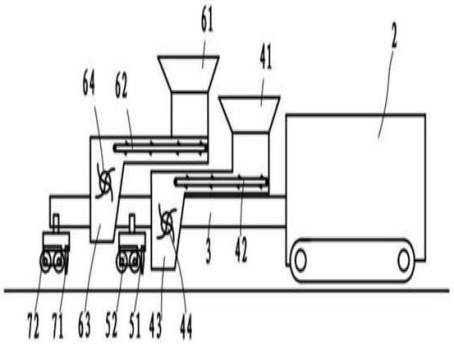
11	**124**	
21	ET/P/2024/759	
22	21/06/2024 እ.ኤ.አ.	
30	**የማመልከቻ ቀን የቀደምትነት ቀን ነው**	
45	28/10/2024 እ.ኤ.አ.	
51	**E 04C 5/08**(2006.01), **E 04G 21/12**(2006.01)	

54	Adjustable Steel Bar Binding Device for T-beam Bottom and Web Plates	
72	Wang Han, Liu Qinglin, Wang Huan, Liu Panshi, Wang Jing and Sun He [CN];	
73	China First Highway Engineering Co., Ltd., Bole Sub-City, Woreda 03, Addis Ababa [ET];	
74	Fikre Tesfaye, Sheger City Koyefeche Sub-City, Woreda Tulu Dimtu, H.NO 109/07 [ET];	
57	The present invention related to an adjustable steel bar binding device for T-beam bottom and web plates, comprising a bottom plate steel bar fixture and a web plate steel bar fixture. The bottom plate steel bar fixture includes placement seats (23) and a positioning rod (1) placed on a bottom mold (9). M fixed columns (21) are installed at the top of the positioning rod from left to right sequentially, and the placement seats are detachably installed on the fixed columns. Multiple positioning rods are placed on the bottom mold at intervals of one meter, the steel bars are placed one by one in the placement seats, and the steel bars are positioned by the placement seats. Multiple web plate steel bar fixtures are placed in order in the appropriate position and the steel bars in the web plate portion are supported by the support rods.	

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11	**125**	
21	ET/P/2024/760	
22	02/07/2024 እ.ኤ.አ.	
30	የማመልከቻ ቀን የቀደምትነት ቀን ነው	
45	28/10/2024 እ.ኤ.አ.	

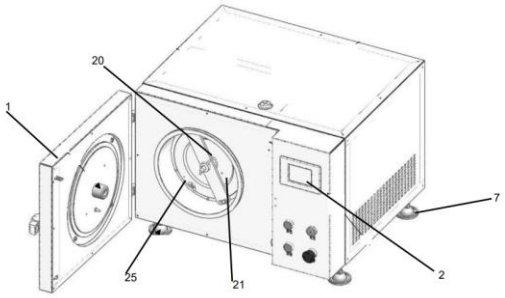
51	**E 01C 19/00**(2006.01), **E 01C 23/14**(2006.01), **E 01C 23/06**(2006.01)
54	Synchronous Construction Method and Apparatus for Anti -Skid Wear Layer Pavement
72	Wang Yuguo, Liu Panshi, Yue Yunye, Zhang Jun, Zou Yi,Liu Qinglin, Bole Sub-City, Woreda 03, Addis Ababa [CN];
73	China First Highway Engineering Co., Ltd., Bole Sub City Woreda 03 House No. 114/A, Addis Ababa [ET];
74	Fikre Tesfaye, Sheger City, Koyefeche Sub-City, Woreda Tuludimtu, H.NO 109/07 [ET];



57 The present invention provides a synchronous construction method and apparatus for applying an anti-skid wear layer pavement. The apparatus includes a traveling unit (2) that drives a frame (3), facilitating the movement of a first paving unit and a second paving unit arranged on the frame. The first paving unit performs the paving operation of a lower bearing layer by conveying ordinary asphalt mixture from a first hopper (41) to a first discharge port (43) through a first scraper conveying mechanism (42) and a first spiral distribution mechanism, forming the lower bearing layer. Simultaneously, the second paving unit performs the paving operation of an anti-skid wear surface layer by conveying high viscosity modified emulsified asphalt mixture from a second hopper (61) to a second discharge port (63) through a second scraper conveying mechanism (62) and a second spiral distribution mechanism, forming the anti-skid wear surface layer on the lower bearing layer. An ironing mechanism located behind the second discharge port then smooth's the anti-skid wear surface layer, ensuring a durable and skid-resistant pavement.

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11	**126**
21	ET/P/2024/761
22	02/07/2024 እ.ኤ.አ.
30	**የማመልከቻ ቀን የቀደምትነት ቀን ነው**
45	P/2024/000126 እ.ኤ.አ.
51	**E 01C 21/00**(2006.01), **G 01N 11/14**(2006.01)
54	Device and Method for Testing Adhesion of Asphalt Mixture’s
72	Wang Yuguo, Zhou Yandong, Wang Han, Li Wei, Wang Shaoyong, Sun He, Liu Panshi, Liu Qinglin, Bole Sub-City, Woreda 03, H.NO114/A, Addis Ababa [ET];
73	China First Highway Engineering Co., Ltd., Bole Sub City Woreda 03 House No. 114/A, Addis Ababa [ET]
74	Fikre Tesfaye, Sheger City, Koyefeche Sub-City, Woreda Tulu Dimtu, H.NO 109/07 [ET];

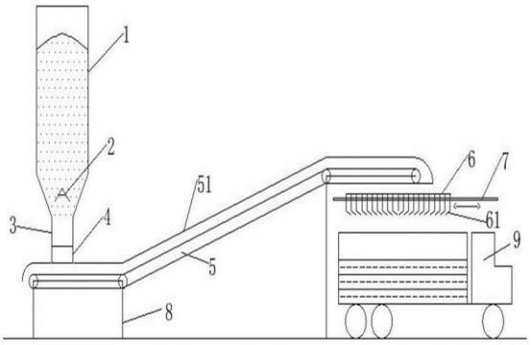


57 The invention relates to a device for testing the adhesion of asphalt mixtures. It comprises a rotating inner drum (21) enclosed within a heating outer drum (25), a temperature controller (20), and a tightening type of door /1/, which allows assessing the performance and reliability of the device under different conditions; a display screen /2/ to display relevant information to facilitate easy monitoring and analysis during testing; and an equipment base /7/ to provide a secure and reliable testing platform. The process involves testing the asphalt mixture, loading the barrel with the

	mixture, and calculating the adhesion rate based on mass variation measured before and after the test.

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11	**127**
21	ET/P/2024/762
22	02/07/2024 እ.ኤ.አ.
30	**የማመልከቻ ቀን የቀደምትነት ቀን ነው**
45	28/10/2024 እ.ኤ.አ.
51	**E 01C 19/10**(2006.01)
54	Uniform Discharging Device and Method for Asphalt Mixture
72	Wang Yuguo,Sun He,LiWei,Liu Panshi,Zhou Yandog,Liu Qinglin [ET];
73	China First Highway Engineering Co., Ltd., Bole Sub City Woreda 03 House No. 114/A, Addis Ababa [ET];
74	Fikre Tesfaye, Sheger City Koyefeche Sub-City, Woreda Tulu Dimtu, H.NO 109/07 [ET];



57	The present invention relates to a uniform discharging device for asphalt mixture. The device comprises a storage bin (1) with an input end of a conveying belt (5) extending below a discharge port of the storage bin and an output end extending above a parking space of a transport vehicle (9). An anti-segregation device (2) is centrally arranged inside the discharge port of the storage bin to break bonding blocks and prevent blockage. A distributing hopper (4) is positioned between the

	discharge port of the storage bin and the conveying belt (5) which equipped with a distribution spiral. A receiving bin (6) is situated below the output end of the conveying belt and moves reciprocally during the material receiving process. Multiple bin doors (61) are arranged in a longitudinal array at the bottom of the receiving bin and can be opened synchronously, allowing the asphalt mixture to fall into the compartments of the transport vehicle at one time.

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(54) Adjustable Steel Bar Binding Device for T-Beam Bottom and Web Plates

(71) Applicant: China First Highway Engineering Co, Ltd [CN]

(72) Inventor:

Wang Han [CN],

Liu Qinglin [CN],

Wang Huan [CN],

Liu Panshi [CN],

Wang Jing [CN] and

Sun He [CN];

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(51) IPC:

E 04C 5/08(2006.01),

E 04G 21/12(2006.01)

E 04C 5:08

E 04G 21:12

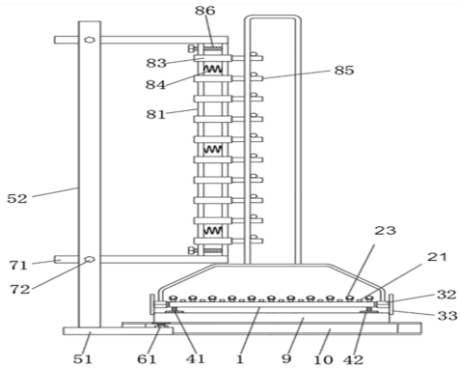
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Getachew Taffa

(57) Abstract

The present invention related to an adjustable steel bar binding device for T-beam bottom and web plates, comprising a bottom plate steel bar fixture and a web plate steel bar fixture. The bottom plate steel bar fixture includes placement seats (23) and a positioning rod (1) placed on a bottom mold (9). M fixed columns (21) are installed at the top of the positioning rod from left to right sequentially, and the placement seats are detachably installed on the fixed columns. Multiple positioning rods are placed on the bottom mold at intervals of one meter, the steel bars are placed one by one in the placement seats, and the steel bars are positioned by the placement seats. Multiple web plate steel bar fixtures are placed in order in the appropriate position and the steel bars in the web plate portion are supported by the support rods.

11 Claims and 07 Fingers



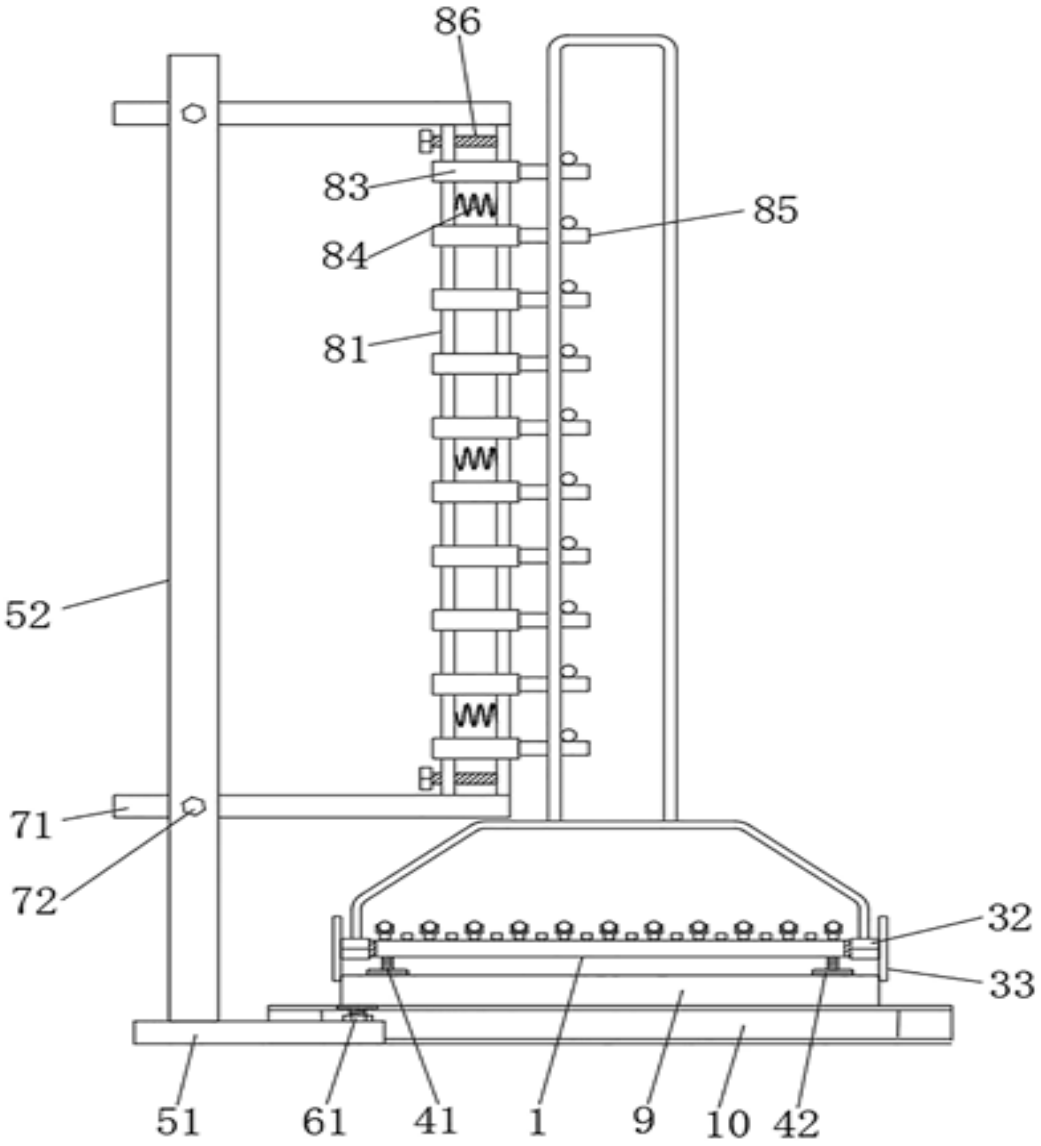


FIG. 1

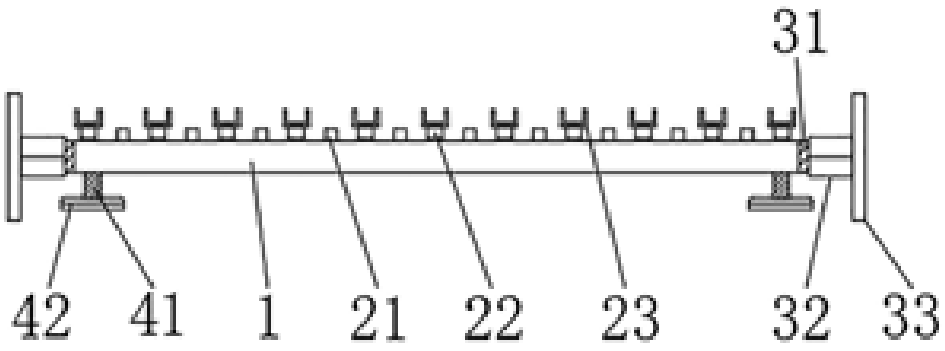


FIG. 2

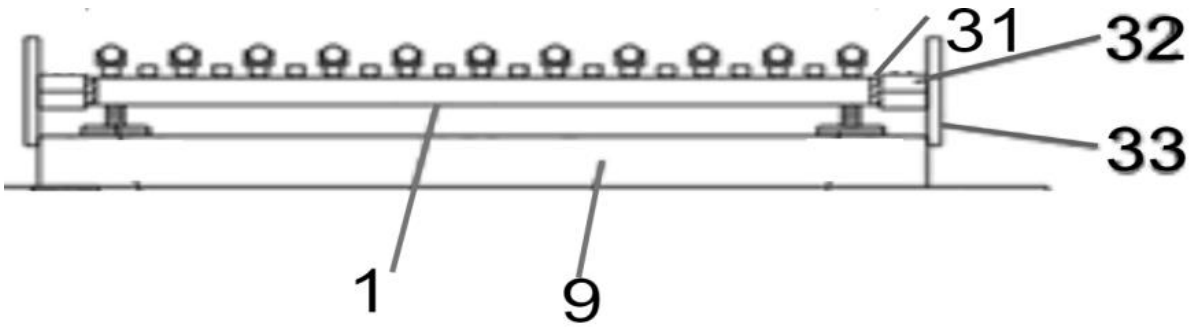


FIG. 3

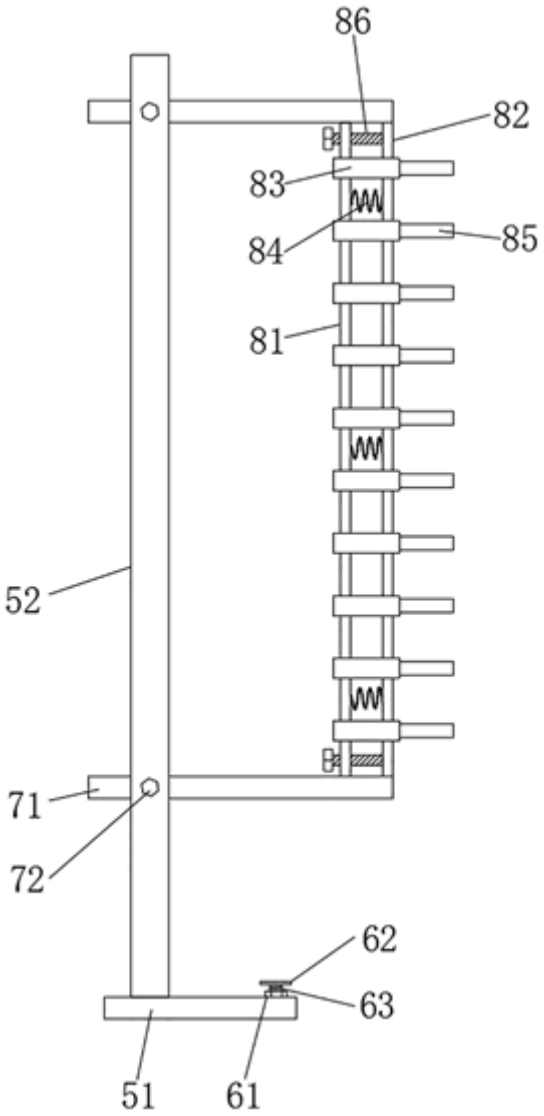


FIG. 4

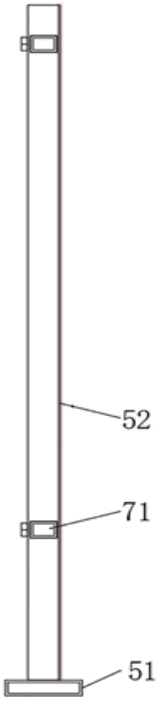


Figure 5

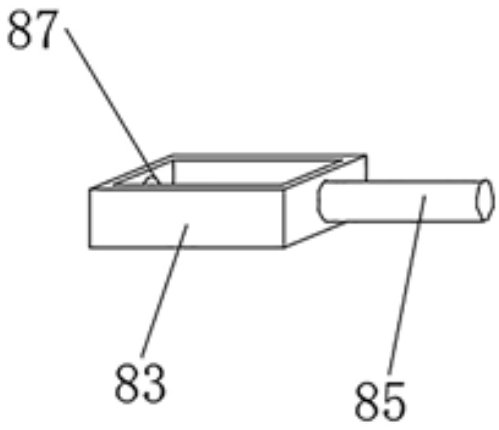


Figure 6

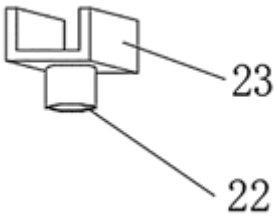


Figure 7

Adjustable Steel Bar Binding Device for T-Beam Bottom and Web Plates

Description

Technical Field

The present invention relates to bar binding device, and more particular to an adjustable steel bar binding device for T-beam bottom and web plates.

BACKGROUND

A T-beam refers to a beam with a T-shaped cross-section. The protruding parts on two sides are called flanges, and the middle part is called the beam rib (or web plate). Because it is equivalent to digging out the concrete in a tensile zone of a rectangular beam that does not contribute to the bending strength to form the T-beam. In addition to having exactly the same bending strength as the original rectangular beam, it not only saves concrete, but also has a reduced weight and an improved spanning capacity.

Currently, in the process of steel bar binding for T-beam, generally a large-scale membrane tool is used to control the position and spacing of the steel bars, and lifting equipment is used to lift the steel bars to the formwork for installation. The membrane tool occupies a large area, is costly, and there are hidden dangers in the lifting of steel bars, and after the lifting is completed, the steel bars need to be further partially adjusted.

Therefore, a steel bar binding device for T-beam bottom and web plates is proposed to solve the above problems.

SUMMARY

In view of the issues that in the process of steel bar binding for T-beam, generally a large-scale membrane tool is used to control the position and spacing of the steel bars, and lifting equipment is used to lift the steel bars to the formwork for installation. The membrane tool occupies a large area, is costly, and there are hidden dangers in the lifting of steel bars, and after the lifting is completed, the steel bars need to be further partially adjusted, the present application provides an adjustable steel bar binding device for T-beam bottom and web plates.

An adjustable steel bar binding device for T-beam bottom and web plates is provided according to the present application, which includes a bottom plate steel bar fixture and a web plate steel bar fixture. The bottom plate steel bar fixture includes N placement seats and a positioning rod placed on a bottom mold. M fixed columns are installed at the top of the positioning rod from left to right

sequentially, and the placement seats are detachably installed on the fixed columns.

The web plate steel bar fixture includes an adjustment assembly, H adjustment sleeves, as well as an upright column, a fixed installation plate, and a movable installation plate that are arranged in parallel. A base is installed at a bottom end of the upright column, and two through holes are provided inside the upright column. Adjustment arms are fixedly installed at upper and lower ends of the fixed installation plate respectively, and the two adjustment arms are slidably arranged in the two through holes respectively.

The adjustment assembly is installed on the fixed installation plate and can adjust spacing between the fixed installation plate and the movable installation plate. The adjustment sleeves are sleeved on outer sides of the fixed installation plate and the movable installation plate. Magnets are clamped in left walls of the adjustment sleeves, the magnets are attached on the fixed installation plate, and support rods for supporting the web plate steel bars are installed on side faces of the adjustment sleeves.

In some embodiments, insertion sleeves are fixedly installed at the bottom of the placement seats, and the insertion sleeves are insertably sleeved on the fixed columns.

In some embodiments, the adjustable steel bar binding device for T-beam bottom and web plates further including two adjustable support feet, which are arranged at two ends of the positioning rod respectively.

In some embodiments, the adjustable support foot includes a threaded rod and a pad plate installed at a bottom end of the threaded rod, and an upper end of the threaded rod is headedly connected to a threaded groove provided at the bottom of the positioning rod.

In some embodiments, two ends of the positioning rod are respectively provided with external threads which are headedly connected to movable nuts, and ends of the movable nuts that are away from the positioning rod are fixedly connected to clamp plates.

In some embodiments, a first threaded hole is provided at the position of the upright column that corresponds to the adjustment arm, the first threaded hole is internally threadedly connected to a locking bolt, and an inner end of the locking bolt is in contact with the adjustment arm.

In some embodiments, an inner end of the base extends below the bottom mold and is located between the bottom mold and the ground

In some embodiments, the adjustable steel bar binding device for T-beam bottom and web plates, further including a fixed nut and an adjustment plate, wherein the fixed nut is installed at the top of the base, the fixed nut is internally threadedly connected to a stud, and the adjustment plate is fixedly installed at a top end of the stud and is in contact with a bottom surface of the bottom mold.

In some embodiments, multiple springs are installed between the fixed installation plate and the movable installation plate.

In some embodiments, the adjustment assembly is an adjustment bolt, which is connected to a second threaded hole provided at the end of the fixed installation plate, and the end of the adjustment bolt is in contact with a side face of the movable installation plate.

Compared with the prior art, the present application has the following beneficial effects:

1. In the present application, multiple positioning rods are placed on the bottom mold at intervals of one meter, the steel bars are placed one by one in the placement seats, and the steel bars are positioned by the placement seats, so that the workers can bind the bottom plate steel bars. Multiple web plate steel bar fixtures are placed in order in the appropriate position, and the steel bars in the web plate portion are supported by the support rods, so that the workers can bind the web plate steel bars. The device is easy to carry in parts, and binding can be performed directly on the bottom mold. The bottom plate steel bar fixtures and web plate steel bar fixtures are used to control the positions, spacings and horizontality of the steel bars, thereby effectively ensuring the quality of on-site construction.

2. In the present application, multiple fixed columns are provided to adjust the distance between two adjacent placement seats according to the specifications of the T-beams and the binding positions of the bottom plate steel bars, so as to facilitate the binding of T-beam bottom plate steel bars of different specifications, thereby improving the practicality and applicability of the device.

3. In the present application, by reversely rotating the pad plate, the threaded rod is stored in the threaded groove, and then the height of the positioning rod is

reduced, so that the placement seat is separated from the steel bar, so as to facilitate taking out of the positioning rod from under the bottom plate steel bar.

4. In the present application, by rotating the two movable nuts one by one, the clamp plates on the two sides are in contact with two side surfaces of the bottom mold respectively, and then the positioning rod is fixed on the bottom mold to ensure the stability of the positioning rod during use.

5. In the present application, by setting the adjustment sleeves, the positions of support rods can be adjusted according to the specifications of the T-beams and the binding height of the web plate steel bars, thereby improving the practicality and applicability of the device.

6. In the present application, the magnet is installed in the adjustment sleeve, and after the height of the adjustment sleeve is adjusted, the magnet is attached on the fixed installation plate, thereby temporarily fixing the position of the adjustment sleeve to prevent the adjustment sleeve from moving up and down.

7. In the present application, by rotating the adjustment bolt forward, the adjustment bolt drives the movable installation plate away from the fixed installation plate to be in contact with the right sides of the inner walls of the adjustment sleeves. Then, with the cooperation of the fixed installation plate and the movable installation plate, the multiple adjustment sleeves are fixed at the same time. The fixing is convenient and fast, saving time and effort, so that multiple adjustment sleeves will not be displaced, so as to ensure the supporting effect of the support rods on the web plate steel bars.

Brief Description of the Drawings

Figure 1 is a front view structural diagram of the present invention.

Figure 2 is a front view enlarged structural diagram of a bottom plate steel bar fixture of the present invention.

Figure 3 2 is a front view enlarged structural diagram of a bottom mold of the present invention.

Figure 4 is a front view structural diagram of a web plate steel bar fixture of the present invention.

Figure 5 is a right cross-sectional view of structure of the web plate steel bar fixture of the present invention.

Figure 6 is an enlarged schematic perspective view of an adjustment sleeve of the present invention; and

Figure 7 is an enlarged schematic perspective view of a placement seat of the present invention.

Detailed Description of the Invention

Reference will now be made in detail to embodiments of the present invention which are illustrated in the accompanying drawings.

Please refer to Figures 1 to 7, the present application provides a technical solution for an adjustable steel bar binding device for T-beam bottom and web plates.

As shown in Figure 1, the adjustable steel bar binding device for T-beam bottom and web plates includes a bottom plate steel bar fixture and a web plate steel bar fixture. The bottom plate steel bar fixture includes N placement seats (23) and a positioning rod (1) placed on a bottom mold (9).

As shown in Figure 2 fixed columns (21) are installed at the top of the positioning rod (1) from left to right sequentially. Insertion sleeves (22) are fixedly installed at the bottom of the placement seats (23). The insertion sleeves (22) are insertable sleeved on the fixed columns (21), so that the placement seats (23) are detachably installed on the fixed columns (21). By setting multiple fixed columns (21), the distance between two adjacent placement seats (23) can be adjusted according to the specifications of the T-beams and the binding positions of the bottom plate steel bars, so as to facilitate the binding of T-beam bottom plate steel bars of different specifications, thereby improving the practicality and applicability of the device.

As shown in Figure 2 the adjustable steel bar binding device for T-beam bottom and web plates further includes two adjustable support feet, which are arranged at two ends of the positioning rod (1). Each of the adjustable support feet includes a threaded rod (41) and a pad plate (42) installed at a bottom end of the threaded rod (41). An upper end of the threaded rod (41) is threadedly connected to a threaded groove provided at the bottom of the positioning rod (1). By reversely rotating the pad plate (42), the threaded rod (41) is stored in the threaded groove, and then the height of the positioning rod 1 is reduced, so that the placement seat 23 is separated from the steel bar, so as to facilitate taking out of the positioning rod(1) from under the bottom plate steel bar.

As shown in Figure 3 two ends of the positioning rod (1) are respectively provided with external threads (31) which are threadedly connected to movable nuts (32), and ends of the movable nuts (32) that are away from the positioning rod (1) are fixedly connected to clamp plates (33). By rotating the two movable nuts (32) one by one, the clamp plates (33) on the two sides are in contact with two side

surfaces of the bottom mold (9) respectively, and then the positioning rod (1) is fixed on the bottom mold (9) to ensure the stability of the positioning rod (1) during use.

As shown in Figure 4 The web plate steel bar fixture includes an adjustment component, adjustment sleeves (83), as well as an upright column (52), a fixed installation plate (81), and a movable installation plate (82) that are arranged in parallel, and a base (51) is installed at a bottom end of the upright column (52). An inner end of the base (51) extends below the bottom mold (9) and is located between the bottom mold (9) and the ground. Two through holes are provided inside the upright column (52), adjustment arms (71) are fixedly installed at upper and lower ends of the fixed installation plate (81), and the two adjustment arms (71) are design to slid through holes. By pulling the adjustment arms (71), the lateral positions of the fixed installation plate (81) and the movable installation plate (82) can be adjusted.

As shown in Figure 4 multiple springs (84) are installed between the fixed installation plate (81) and the movable installation plate (82). By setting the springs (84), in one aspect, the fixed installation plate (81) and the movable installation plate (82) can be connected by the springs (84), and in another aspect, the pulling force of the springs (84) can pull the movable installation plate (82) closer to the fixed installation plate (81).

As shown in Figure 4 and 6, the adjustment sleeves (83) are sleeved on outer sides of the fixed installation plate (81) and the movable installation plate (82). By setting the adjustment sleeves (83), the positions of support rods (85) can be adjusted according to the specifications of the T-beams and the binding height of the web plate steel bars, thereby improving the practicality and applicability of the device. Magnet (87) is clamped in left walls of the adjustment sleeves (83). After the heights of the adjustment sleeves (83) are adjusted, the magnets (87) are attached on the fixed installation plate (81) to temporarily fix the positions of the adjustment sleeves (83) to prevent them from moving up and down. The support rods (85) for supporting the web plate steel bars are installed on side faces of the adjustment sleeves (83).

As shown in Figure 4 two sets of adjustment assemblies are provided, which are respectively arranged at the upper and lower ends of the fixed installation plate (81). Each of the adjustment assemblies is an adjustment bolt (86), which is threadedly connected to a second threaded hole provided at the end of the fixed installation plate (81). The end of the adjustment bolt (86) is in contact with a side face of the movable installation plate (82). By rotating the adjustment bolt (86) forward, the adjustment bolt (86) drives the movable installation plate (82) away from the fixed installation plate (81) to be in contact with

the right sides of the inner walls of the adjustment sleeves (83). Then, with the cooperation of the fixed installation plate (81) and the movable installation plate (82), the multiple adjustment sleeves (83) are fixed at the same time. The fixing is convenient and fast, saving time and effort, so that multiple adjustment sleeves (83) will not be displaced, so as to ensure the supporting effect of the support rods (85) on the web plate steel bars.

As shown in Figure 2, 3 and 4 In specific use, when the adjustable steel bar binding device for T-beam bottom and web plates of the present application is used to bind the bottom plate steel bars, first, multiple positioning rods (1) are placed on the bottom mold (9) at intervals of one meter, then the movable nuts (32) are rotated one by one, to allow the clamp plates (33) on the two sides to be in contact with the two side surfaces of the bottom mold (9) respectively, the positioning rods (1) are fixed on the bottom mold (9), the positions of the positioning rods (1) on the bottom mold (9) are controlled, and then according to the specifications of the T-beams and the binding positions of the bottom plate steel bars, multiple insertion sleeves (22) are inserted one by one on the corresponding fixed columns (21), and after adjusting the positions of the multiple placement seats (23), the steel bars are placed one by one in the placement seats (23), and the steel bars are positioned by the placement seats (23), so that the workers can bind the bottom plate steel bars;

In binding the web plate steel bars, first, multiple web plate steel bar fixtures are placed in order in the appropriate position, and then the adjustment sleeve (83) is slid to adjust the position of the support rod (85) according to the specifications of the T-beams and the binding height of the web plate steel bar. After the height of the adjustment sleeve (83) is adjusted, the magnet (87) is attached on the fixed installation plate (81) to temporarily fix the position of the adjustment sleeve (83). After the positions of the multiple support rods (85) are adjusted, the adjustment bolt (86) is rotated forward so that the adjustment bolt (86) drives the movable installation plate (82) away from the fixed installation plate 81 to be in contact with the right sides of the inner walls of the adjustment sleeves 83. Then, with the cooperation of the fixed installation plate (81) and the movable installation plate 82, the multiple adjustment sleeves (83) are fixed at the same time. Finally, the adjustment arm (71) is slid to move the multiple support rods (85) to the appropriate position, thus the steel bars in the web plate portion can be supported by the support rods (85), so that the workers can bind the web plate steel bars.

as shown in Figure 4, a first threaded hole is provided at the position of the upright column (52) corresponding to the adjustment arm (71), the first threaded hole is internally connected to a locking bolt (72), and an inner end of the locking bolt (72) is in contact with the adjustment

arm (71) to fix the position of the adjustment arm (71) so that the adjustment arm (71) does not slide laterally.

as shown in Figures 4 and 5, the adjustable steel bar binding device for T-beam bottom and web plates further includes a fixed nut (61) and an adjustment plate(62). The fixed nut (61) is installed at the top of the base (51). The fixed nut 61 is internally threadedly connected to a stud (63). The adjustment plate (62) is fixedly installed at a top end of the stud (63) and is in contact with a bottom surface of the bottom mold (9) to fix the base (51) to ensure the stability of the base (51) during use.

Claims

1. An adjustable steel bar binding device for T-beam bottom and web plates, comprising:

a bottom plate steel bar fixture, side steel bar fixture comprising:

a plurality of placement seats arranged on a bottom mold;

a positioning rod positioned on the bottom mold;

A plurality of fixed columns sequentially installed at a top of the positioning rod, wherein the placement seats are detachably installed on the fixed columns; and

a web plate steel bar fixture, side web plate steel bar fixture comprising:

an adjustment assembly;

a plurality of adjustment sleeves;

an upright column having a base at a bottom end and two through holes inside;

a fixed installation plate and a movable installation plate arranged in parallel to each other;

a pair of adjustment arms fixedly installed at upper and lower ends of the fixed installation plate, wherein the adjustment arms are arranged within the two holes of the upright column;

wherein the adjustment assembly is

installed on the fixed installation plate and configured to adjust spacing between the fixed installation plate and the movable installation plate;

wherein the adjustment sleeves are sleeved on outer sides of the fixed installation plate and the movable installation plate;

wherein magnets are clamped in left walls of the adjustment sleeves and are attached to the fixed installation plate;

wherein support rods for supporting web plate steel bars are installed on side faces of the adjustment sleeves.

2. The adjustable steel bar binding device according to claim 1, wherein the insertion sleeves are detachably installed on the fixed columns, allowing for easy adjustment of the placement seats.

3. The adjustable steel bar binding device according to claim 1, further comprising two adjustable support feet, which are arranged at two ends of the positioning rod.

4. The adjustable steel bar binding device according to claim 3, wherein each of the adjustable support feet comprises a threaded rod and a pad plate installed at a bottom end of the threaded rod, and an upper end of the threaded rod is connected to a threaded groove provided at a bottom of the positioning rod.

5. The adjustable steel bar binding device according to claim 1, wherein each end of the positioning rod is provided with external threads, the external threads being threadedly connected to movable nuts, and the ends of the movable nuts opposite the positioning rod being fixedly connected to clamp plates

6. The adjustable steel bar binding device according to claim 1, wherein the upright column includes a first threaded hole positioned to correspond with the adjustment arm, the first threaded hole being internally threaded to receive a locking bolt, and an inner end of the locking bolt being in contact with the adjustment arm.

7. The adjustable steel bar binding device according to claim 1, wherein an inner end of the base extends below the bottom mold and is positioned between the bottom mold and the ground.

8. The adjustable steel bar binding device according to claim 7, further comprising:

a fixed nut installed at the top of the base, wherein the fixed nut is internally threaded;

an adjustment plate fixedly installed at

a top end of the stud, wherein the stud is threadedly engaged with the fixed nut; wherein the adjustment plate is in contact with a bottom surface of the bottom mold.

9. The adjustable steel bar binding device according to claim 1, wherein a plurality of springs are positioned between the fixed installation plate and the movable installation plate.

10. The adjustable steel bar binding device according to claim 9, wherein the adjustment assembly comprises an adjustment bolt threadedly connected to a second threaded hole located at the end of the fixed installation plate, and wherein the end of the adjustment bolt contacts a side face of the movable installation plate.

11. The adjustable steel bar binding device of claim 1, wherein the fixed columns are installed sequentially from left to right on the positioning rod, enabling flexible positioning of the placement seats to accommodate various T-beam specifications.

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