

A MULTIPURPOSE WATCH – AT A GLANCE

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With the development of civilization, the necessity of measurement in certain fields of life which can be expressed in physical units was felt. Some of them are length, weight, time, temperature etc. measurement of time is very important and essential in day to day life of every individual. At present, the time is measured by a device i.e. a machine known as watch / clock which is based on rotation of Earth. At present most of the watches / clocks are made on 12 hours scale.

A new clock invented at the start of 21st century with a different concept altogether making a long jump in time measurement. The watch denotes:

- ☞ Rotation of Earth on its own axis in 24 hours (a Solar day)
- ☞ Revolution of Earth around Sun in 365.242190 days (a Solar year)
- ☞ Revolution of Moon around Earth in 29.530589 days (a Synodic Lunar month)
- ☞ Revolution of Moon around Earth 12 times in 354.367055 days (a Lunar year)

The clock is broadly divided in three zones as given below:

- ☞ **Inner zone (The Time zone)**
 - Parent Country on 24 Hrs. Scale including Metric hours and day completed in percentage.
 - Other Foreign Countries with a provision for correction of time & summer time.
- ☞ **Central zone (The Calendar zone)**
 - Solar Calendar with dates and months.
 - Lunar Calendar with dates and months.
- ☞ **Peripheral zone (The Zodiac zone)**
 - 12 Zodiac signs
 - 27 *Nakshatras* including *Abhijit Nakshatra*
 - 108 *Charans / Padas*.
 - 360 Degrees
 - Provision for both *sayana* as well as *nirayana* system

The present innovation is development of a clock which works according to nature and measures time in a scientific manner. The clock shows both rotation as well as revolution of earth along with revolution of moon. The said clock denotes more than 50 parameters, which are of great importance to human beings in their day-to-day life. Some of them are:

By Sun (Hour) Hand

- ☞ Scientific measurement of time on 24 hrs. time scale.
- ☞ Conversion of present time in metric system of time i.e. 100 seconds=1minute, 100 minutes=1 hour and 100 hours= 1 day.
- ☞ Hour hand always indicates the position of Sun in dome shaped sky at time meridian.
- ☞ Early/late sunrise and early/ late sunset. Thus, indicates longer and shorter duration of day/night.

By Rotating Earth Disc and Time Zone Ring

- ☞ Time of more than 40/45 desired countries/cities at a time with time difference (+) or (-) amongst countries.
- ☞ GMT i.e. Universal time.
- ☞ Places on Earth having mid noon and mid night with date change at any time of the day

By Moon Hand and its revolving ring

- ☞ Different phases of moon including New Moon, Full Moon, first and last Quarter Moon.
- ☞ Start and end of lunar dates (tithis).
- ☞ Helps in family planning to women in reproductive age.
- ☞ Angular distance of moon from earth.

By Lunar Hand

- ☞ Desired one or more lunar years as a whole with Lunar months denoting day of full moon and new moon.



By Earth Hand

- ☞ Desired one or more solar years as a whole
- ☞ Day, date, month and year of Gregorian calendar.
- ☞ Dates having summer/winter solstice and vernal / autumnal equinox.
- ☞ Seasons including Indian seasons with their duration.
- ☞ Earth's slant towards Sun at the end of solar months.
- ☞ Position of sun from equator.
- ☞ Dates of personal importance like birthday, anniversary.
- ☞ Angular distance of earth from first point of Aries.

By Zodiac

- ☞ Position of Sun (Earth) and Moon in zodiac in a particular *rashi*, *nakshatra*, *charan* & degree.
- ☞ Birth sign (*Lagan*), lunar sign and solar sign at birth time
- ☞ Zodiac in required system *sayana* or *nirayana*.
- ☞ *Panchhak* period by presence of moon in last two signs.

By associat watches

- ☞ Metric minutes and metric seconds.
- ☞ Name of week days.
- ☞ Time in *Ghatis* and *Palas*
- ☞ Digital days watch shows record of memorable events upto one million days.
- ☞ Equator watch shows AM/PM, Day/Night, Duration of *prahar* and *chaugharia* at equator of Earth.

Other Provisions

- ☞ The solar year according to Gregorian calendar. Other solar calendars can be printed accordingly if required with their months and dates.
- ☞ The lunar year according to Vikram Samvat. Other lunar years can be printed accordingly with their months and dates.
- ☞ Solstices/equinoxes and seasons are according to northern hemisphere. They should be changed accordingly for southern hemisphere.
- ☞ Early/late sun rise and early/late sun set time shown in 24 hours time scale ring of parent country is different at different latitudes. So it should be printed accordingly at required latitude by an individual.
- ☞ Name of any required country, zone, city or local place at its time meridian can be printed on rotating disc according to personal necessity.
- ☞ Red dots marked in *Charan* ring helps to know the position of rising sign (*rasi*) in east at a particular latitude. Thus helpful to know the *lagan* in horoscope at birth time of an individual.

Patent

213004 (INDIA); PCT/IN2005/000165; WO 2005/116780 A1 National Phase Patent Applications filed in Europe & Japan

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