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Abstract:

Back flow of blood in drippers causes many serious problems in medical field.
To avoid this we have came out with a new idea, we can solve this issue in two ways:-
1. The clippers (a metalic device use to control blood flow in dipper pipe) can be automaticaly closed by using mechanical knowledege and electronic sensors (to sense and control IV fluid and close the valve) by this when we suddenly close the clippers air bubbles are not formed and back flow of blood is avoided in dripper pipes, hence the issue is solved.

2. Dripper chamber with automatic (machanically) control of fluid at the end of fluid in drip chamber preventing entry of air in patient IV system. The system consists of drip chamber ,flow blocker, thin rubber membrane , spring IV set ,air inlet seal , outlet with a pin hole and spring suppoter.

Introduction:

A continuous intravenous (IV) drip is a medical procedure in which a liquid substance is directly dripped into a vein over time through a tube and needle inserted into the skin. A sealed device called a drip chamber controls the process so the substance slowly flows into the vein, without any chance of air entering the bloodstream. Air introduced into the bloodstream can create serious health problems and can even be fatal.
An intravenous drip, also called an IV drips, is commonly associated with long-term treatments, but it is also used as a short-term method to rehydrate a patient or give them medicine to revitalize them. It's a very efficient process to quickly supply the entire body with prescribed medicine. IV drips are routinely used in hospitals as well as in clinics and doctor's offices that prepare patients for admittance to hospitals.

Motivation:

One out of five people during treatment are badly affected by issues caused by drippers some of the issues like back flow of blood and air bubbles formed in drip pipes .this is one of the reason to work on this project .Even though it is a big issue no patented work have been done on this project ,this motivated us to work on it.

Social Impact:

One in five people on an IV drip have suffered complications because they were given too much or too little fluid, with hundreds potentially dying from related diseases, such as pneumonia and kidney failure. Latest figures suggest around nine people a week die after being given too much or too little intravenous fluid

Market Survey:

According to our survey we have seen that modified iv drips are very costlier(600-700rs) in foreign countries .It can't be accessed by poor people . But which we are planning to make are much affordable compare to other. So each and every person can take advantage of it.