

CLAIM 1

At present, the scum produced during the preliminary treatment of waste water from the industries is discharged as waste. I Claim that this project is novel and innovative in the sense that the idea of utilizing the scum produced in the skimming tank during the process of preliminary treatment of waste water preferably from food, oil refineries, automobile industries etc., can be utilized effectively as a hydraulic fluid after carrying out certain synthesis to remove the impurities present in the extracted oil from the skimming tank.

CLAIM 2

The viscosity is one the major property of any hydraulic fluid used in various hydraulic machines. The viscosity of the extracted oil free from impurities is determined using a viscometer and compared with the viscosity of a standard fluid. The viscosity of the extracted oil was found to be low. Hence it becomes necessary to improve the viscosity of the oil. Various blending agents were tried and castor oil is found is to be the best option for this purpose.

CLAIM 3

The blending agent addressed in Claim 2, castor oil has to be mixed with the extracted oil in a suitable proportion. Determination of this optimum proportion of blending is done using standard procedure to bring the viscosity of the extracted oil on par with the viscosity of the standard hydraulic fluid. The hydraulic fluid obtained through this project is free from impurities, bio-degradable and environment friendly. The production cost of this hydraulic fluid will be low, if made on a large scale and comparatively cheaper than the cost of a standard hydraulic fluid available in the market.

Signature of the Applicant:

Name:

Date: