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(71)Name of Applicant :  
**1)Pravin Dnyaneshwar Sawant**  
 Address of Applicant :Associate professor, Narayan Zantye college of Commerce Bicholim Goa- 403529 -

-----

**2)Dr.N.S.SHIBU**  
**3)Dr.C.KALA**  
**4)Dr.M.Mohamed Siddik**  
**5)Dr.R.RAMAKRISHNAN**  
**6)Dr. M. THANIKAIVEL**  
**7)Dr.A.Gowthaman**  
**8)Dr. Vinayaka K.S**  
**9)Dr M JAYANTHI**  
**10)Dr.R.Aruna**

Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Pravin Dnyaneshwar Sawant**  
 Address of Applicant :Associate professor, Narayan Zantye college of Commerce Bicholim Goa- 403529 -----

-----

**2)Dr.N.S.SHIBU**  
 Address of Applicant :Assistant Professor & Head, Department of Management Studies, Government Arts and Science College (Erstwhile Bharathidasan University Constituent College), Kurumbalur, Perambalur - 621107. Tamil Nadu -----

**3)Dr.C.KALA**  
 Address of Applicant :Assistant Professor, St.Thomas Colg of Arts and Science, 140, St.Thomas Nagar, Koyampedu, Chennai.- 600107 Tamil Nadu -----

**4)Dr.M.Mohamed Siddik**  
 Address of Applicant :Assistant Professor, Department of Commerce, Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli.-627011 Tamilnadu -----

**5)Dr.R.RAMAKRISHNAN**  
 Address of Applicant :Principal (Rtd) PPRT Padmavathi College of Arts and Science (Women), Harur, Dharmapuri.-636903 Tamil Nadu -----

**6)Dr. M. THANIKAIVEL**  
 Address of Applicant :Assistant Professor, PG Research Department of Commerce, Government Arts College for Men (Autonomous), Nandanam, Chennai - 600 035. Tamil Nadu -----

**7)Dr.A.Gowthaman**  
 Address of Applicant :Assistant Professor, PG Research Department of Commerce, Annamalai University, Annamalainagar Deputed to Government Arts College for Men (Autonomous) Nandanam, Chennai-600 035. Tamil Nadu -----

**8)Dr. Vinayaka K.S**  
 Address of Applicant :Assistant Professor and HOD, Department of Botany, Sri Venkataramana Swamy College, Vidyagiri, Bantwal-574211, Dakshina Kannada, Karnataka -----

**9)Dr M JAYANTHI**  
 Address of Applicant :Assistant professor, Kongu Arts and Science College ( Autonomous), Nanjanapuram, Erode- 638107 Tamil Nadu -----

**10)Dr.R.Aruna**  
 Address of Applicant :Assistant Professor, Hindustan college of Arts and Science, Avinashi road, Behind nava india, Odayampalayam, Coimbatore-641028 Tamil Nadu -----

(57) Abstract :  
 [05] In this work, we have presented a general framework for the modeling and simulation of a supply chain. Developed in C #, the main sites have been described using UML language. The modeling and simulation framework has been developed to allow an assessment of the various performance indicators of the supply chain. Attributes as well as possible behaviors of the different sites (supplier, factory, distribution center, customer and transport connection) were modeled in classes. These classes allow dynamic modeling of classic logistics chains. One of the perspectives of our modeling is to deepen the description of the sites and add new decision rules related to the different activities of the chain (supply, production, storage and distribution). These rules can be placed in independent modules, and allow the optimization of different decisions. These studies will allow us to have a more realistic and dynamic simulation of the logistics chain without human intervention.

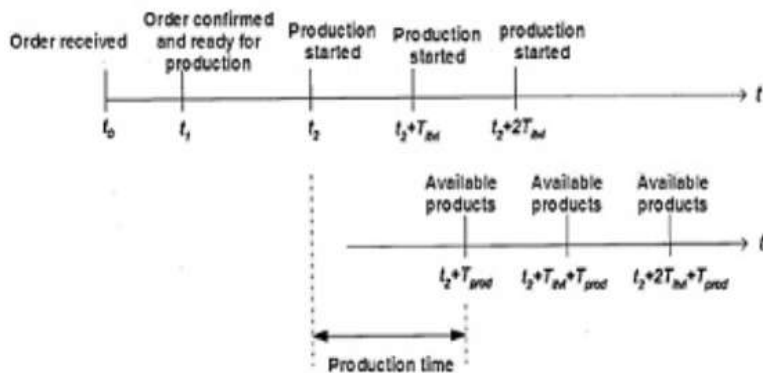


FIG. 6. Various events observed during the processing of a production order