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(54) Title of the invention : SIMULATION MODELLING TO SOLVE WAITING LINE PROBLEMS IN SHEET METAL AUTOMOBILE COMPONENT OF MANUFACTURING INDUSTRY

<p>(51) International classification :G06Q0030020000, G07C0011000000, G07G0001000000, H04N0019147000, H04M0003523000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Mohammad Javed Address of Applicant :Assistant Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad ----- 2)Dr. Vaibhav Trivedi 3)Mr. Vivek Shankhdhar 4)Mr. Mayank Bharadvaj 5)Mr. Kapil Gill 6)Mr. Ayush Saxena 7)Mr. Arvind Chaudhary Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Mohammad Javed Address of Applicant :Assistant Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad ----- 2)Dr. Vaibhav Trivedi Address of Applicant :Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad ----- 3)Mr. Vivek Shankhdhar Address of Applicant :Assistant Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad ----- 4)Mr. Mayank Bharadvaj Address of Applicant :Assistant Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad ----- 5)Mr. Kapil Gill Address of Applicant :Assistant Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad ----- 6)Mr. Ayush Saxena Address of Applicant :Assistant Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad ----- 7)Mr. Arvind Chaudhary Address of Applicant :Assistant Professor, Mechanical Engineering Department , IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----</p>
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(57) Abstract :

The present invention relates to the sheet metal automobile component manufacturing industry is facing a problem of high waiting time of dies in the Queue and they are paying penalty as waiting cost. At present there are three service points. If we increase the number of service points, the waiting time and hence waiting cost will obviously decrease, but service cost, on the other hand will increase. It shows that we have two opposite costs and we can have a trade-off between these two costs to find the optimum number of service points, which in fact, is the objective of this thesis that will be dealt with later on. Therefore, the company is interested in knowing the optimum number of service point so that waiting cost can be reduced which in turn will result in the reduction of risk of losing the customers.

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