SUMMARY OF FORMULATION LOGIC FOR AATRIZINVENTOR SOLUTION

Work Paper

If you applied summary or abbreviated descriptions, have them available to review this logic.

Objective of the Innovation Challenge

Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem !

Evaluated Object S1

CIRCULAR COOLING DUCT - Type: Stationary

Object S2 interacting with S1

SQUARE CO2 FILTER - Type: Stationary

Physical Variable or Characteristic

Ability to connect different areas

the undesirable

With Less Ability to connect different areas there is undesirable effects, then there is More difficulty to :

Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem !

the desirable

With More Ability to connect different areas there is desirable effect, then there is More ease to :

Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem !

TRIZ Innovation Parameters Evaluated

TRIZ Innovation Parameters	Undesirable Effect (UDE)/ Desirable Effect (DE)	Evaluate
6. Area of stationary object	CIRCULAR COOLING DUCT : There is More difficulty to Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem ! because there is Less Area with respect to Square CO2 Filter Effect : undesirable	Yes No
12. Shape / composition / configuration	CIRCULAR COOLING DUCT : There is More difficulty to Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem ! because there is Less Appropriate shape to connect to Square CO2 Filter Effect : undesirable	Yes No
30. Object-affected harmful factors	CIRCULAR COOLING DUCT : There is More difficulty to Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem ! because there is More Damaging factors that affect it due to dimensions incompatible with Square CO2 Filter Effect : undesirable	Yes No
31. Object-generated harmful factors	CIRCULAR COOLING DUCT : There is More difficulty to Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem ! because there is More Damaging factors generated that affect the square CO2 filter due to incompatible dimensions Effect : undesirable	Yes No

TRIZ Innovation Parameters	Undesirable Effect (UDE)/ Desirable Effect (DE)	Evaluate
36. Complexity of Device/ Action	CIRCULAR COOLING DUCT : There is More difficulty to Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem ! because there is More Connection complexity Effect : undesirable	Yes No
33. Ease of operation	CIRCULAR COOLING DUCT : There is More ease to Improve Connection between the Circular Cooling Duct and the square CO2 filter affected by area incompatibility: ¡ Attention Houston, we have a problem ! because there is More Ease of operation connected to Square CO2 Filter Effect : desirable	Yes No