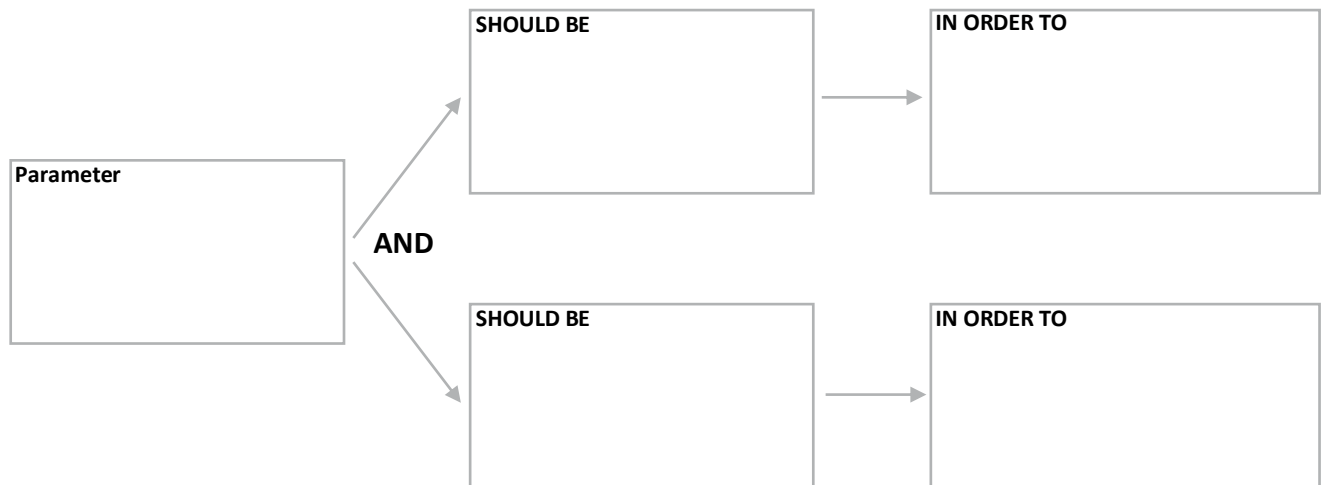


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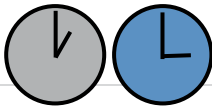
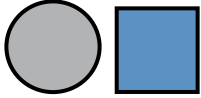
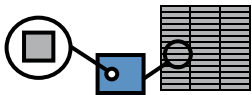

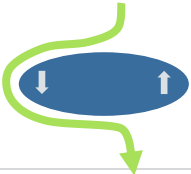
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Formulation of physical contradiction



Selection of method of separation by answering the questions

(select highest system level, if possible)

Space 	Where shall parameter be set to value 1 and where shall parameter be set to value 2?
Time 	When shall parameter be set to value 1 and when shall parameter be set to value 2?
Relation 	For Whom shall parameter be set to value 1 and for whom shall parameter be set to value 2?
System level 	Can problem be solved with the aid of <u>supersystem</u> ? Can problem be solved with the aid of <u>subsystem</u> ?
Satisfaction 	Can contradictory requirements be satisfied?
Bypassing 	Can contradictory requirements be bypassed?

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Space	Time	Relation	System level	Satisfaction	Bypassing
# 1 Segmentation # 2 Taking away # 3 Local conditions # 7 Nesting # 4 Asymmetry # 17 Transition into new dimension	# 15 Dynamics, adjustability # 34 Rejection and regeneration # 10 Prior action # 9 Prior counteraction # 11 Beforehand compensation	# 40 Composite materials # 31 Porous materials # 32 Optical property changes # 3 Local conditions # 19 Periodic action # 17 Transition into new dimension	# 1 Segmentation # 5 Merging # 33 Homogeneity # 12 Equipotentiality	# 36 Phase transitions # 37 Thermal expansion # 28 Replace mechanical system with fields # 35 Changing properties # 38 Use strong oxidizers # 39 Inert environment	# 25 Self service # 6 Multi-functionality # 13 The other way round

Selection of innovative principle according to separation method

Method of separation	No. and principle	Solution idea