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generic suggestions for performing an action to, and within, a technical system. Altshuller discovered these Principles during his investigation and synthesis of thousands of patents. These were some of the keys of how inventive people solved inventive problems independent of industry or science. 40 Principles - Technical Innovation Center, Inc. 40 Inventive Principles is a classical TRIZ tool, problem-solving tool. It is a very strong technique for new Ideas generation. Fundamentals of the technique developed by Genrich Altshuller based on analysis, classification, and systematization of tens of thousands of patents. 40 Inventive Principles - PRIZ Guru 40 Inventive (Architecture) Principles With Examples Darrell Mann Systematic Innovation 5A Yeo-Bank Business Park Kenn Road, Clevedon BS21 6UW, UK Phone: +44 (1275) 337500 Fax: +44 (1275) 337509 E-mail: Darrell.Mann@systematic-innovation.com Conall Ó Catháin Senior Lecturer, School of Architecture, Queen's University Belfast, BT7 1NN, UK 40 Inventive (Architecture) Principles With Examples The following is a list of the 40 Inventive Principles and examples of their use in the human factors area. Physical illustrations of many of these principles will be provided in the actual meeting presentation. Principle 1. 40 Inventive Principles With Examples. Principle 1 Segmentation. A. Divide an object into independent parts – Different focal length lenses for a camera – Gator-grip socket spanner – Multi-pin connectors – Multiple pistons in an internal combustion engine – Multi-engined aircraft – Stratification of different constituents inside a chemical process vessel.

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40 Inventive (Architecture) Principles With Examples Darrell Mann Systematic Innovation 5A Yeo-Bank Business Park Kenn Road, Clevedon BS21 6UW, UK Phone: +44 (1275) 337500 Fax: +44 (1275) 337509 E-mail: Darrell.Mann@systematic-innovation.com Conall Ó Catháin Senior Lecturer, School of Architecture, Queen's University Belfast, BT7 1NN, UK

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A. Place one object inside another; place each object, in turn, inside the other. Measuring cups or spoons. 40 Inventive Principles With Examples 06/05/2007 02:30 PM <http://www.triz-journal.com/archives/1997/07/b/index.html> Page 3 of 11.

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40 Inventive Principles with Examples: Human Factors and Ergonomics. Jack Hipple Innovation-TRIZ Tampa, FL jwhinnovator@earthlink.net www.innovation-triz.com Stan Caplan Usability Associates Rochester, NY scaplan@usabilityassociates.com www.usabilityassociates.com Michael Tischart Visteon Corp. Van Buren, Township, MI mtschr@umich.edu Abstract Human factors and ergonomics is the area of science relating to the relationship between workers, their work place environment, and the equipment ...

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40 Inventive Principles With Examples This format for the 40 Inventive Principles and the accompanying examples was developed by Karen Tate and Ellen Domb for their class, "Practical Innovation."

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