

# The innovative proposition

to attract investors and buyers

## 1. Name of innovation

**SOLAR REFRIGERATION SYSTEMS WITH PRELIMINARY DRAINAGE OF AIR ON THE BASIS OF HEAT-MASS-TRANSFER APPARATUS WITH FLUIDIZED BED PACING**

## 2. Intellectual Property

Select the appropriate position, put the mark «+». *Write relevant information.*

- Patented Innovation countries: Ukraine
- Filed for a patent countries: \_\_\_\_\_
- License agreement or Exclusive rights. Exclusive rights \_\_\_\_\_
- Other (specify) \_\_\_\_\_

## 3. Type of innovation

Select the icon by replacing from "-" to "+"

-	Product
-	Technology

+	Result of R&D
-	Other (discussed separately)

## 4. Areas of innovation

Select one or more applications innovation by replacing from "-" to "+" .

-	Automobiles, transport and logistics
+	Agriculture and food technology
-	Aerial and space technology
-	Biochemical technology
-	Building
-	Military Industrial and Safety
+	Energy and Energy Saving
-	IT-technology, ICT industry and services
-	Light industry
-	Marine industry and services
-	Environment
-	Nano- and Micro Technology
-	New materials
-	Medicine and Health
-	Creative industry
-	Tourism and cultural heritage
-	Other. <i>(Please specify below the scope)</i>

## 5. Novelty

What does innovation superior (in digits or qualitatively) already existing? (The answer should be clear and concise - three main arguments in support of the use of promising innovations in domestic and/or foreign markets)

Fundamental schematics are worked out for the multifunction solar systems. Basic conception and principle of creation of polymeric solar collectors are worked out. The analysis of thermal losses and cycle of experimental researches are executed. Principles of constructing of heat-mass-transfer apparatus (absorber, desorber and evaporated coolers) are worked out with the use of fluidized bed pacing. The basic variants of such heat-mass-transfer apparatus are created. New principle of registration of apparatus provides steady exploitation in extreme terms. The analysis of processes is first executed in apparatus with the use of fluidized bed pacing. As an absorbent solution of LiBr (H<sub>2</sub>O+ LiBr+ LiNO<sub>3</sub>), preferable from the point of view of the required temperature level of regeneration of absorbent that is provided by the solar system, is recommended. The worked out solar refrigeration and air conditioning systems provide the required parameters of comfort for all range of temperatures of outward air. Such systems allow to bring down harmful influence on an environment and power expenses.

## 6. Stage of Innovation

What is innovation's stage of development? Select the icon by replacing from "-" to "+"

+	The concept, proof of concept
+	The prototype, which tested and available for demonstration
-	The technologies for small-scale production
-	The technology is ready for industrial application
-	Commercialized

## 7. The presentation innovations

Select one or more forms by replacing badge from «-» to «+»

-	The demonstration model
+	Multimedia presentation
-	Report

## 8. Information about the participants, which apply innovation

	<i>If innovation is filed away</i>
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