

The innovative proposition

to attract investors and buyers

1. Name of innovation

GAS CLEANING UNIT ON THE BASIS OF SCRUBBER TYPE SPN WITH SELF-PURPOSING MOBILE PLATE FOR OVERLOAD COMPLEXES

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 "+"

<input checked="" type="checkbox"/>	Product
<input checked="" type="checkbox"/>	Technology

<input checked="" type="checkbox"/>	Result of R&D
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	Building
	Military Industrial and Safety
<input checked="" type="checkbox"/>	Energy and Energy Saving
	IT-technology, ICT industry and services
	Light industry
<input checked="" type="checkbox"/>	Marine industry and services
	Environment
	Nano- and Micro Technology
	New materials
	Medicine and Health
	Creative industry
	Tourism and cultural heritage
	Other. (Please specify below the scope)

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)

A "wet" non-standard scrubber with a mobile self-cleaning nozzle and a water recycling system was created. Scrubber is designed to work in a dust and gas purification systems for reloading of bulk cargo complexes (coal, ore, sand, sintered pellet et al. Loads). Prototype scrubber is inserted in the contaminated air aspiration systems rotary Vagonooprokidyvateli port "South".

The use of any type scrubber SPN-70 achieved a substantial increase in the dust collecting efficiency (from 68% to 98%) compared to previously existing "dry" cleaning of dust-laden air in the batteries CC-15 type cyclones. Simultaneously with increased efficiency dedusting achieved a reduction of power consumption of the suction system 4 times and reducing the area it occupies 60%.

First developed documentation system of water recycling with the "wet" scrubber for the working conditions of dust cleaning system of polluted air, which has a negative temperature.

Basic technical characteristics of the aspiration system with SPN-70 scrubber

Productivity for polluted air - 44500 - 72000 m³ / h;

Consumption of recycled water for irrigation - 70 - 80 m³ / h;

The concentration of dust in the air: at the entrance - 0,5 - 10 g / m³;

At the output - 0,005 - 0,120 g / m³;

Water inlet temperature, not less than - 80C;

The air temperature at the entrance, not less - minus 180C;

Aerodynamic head loss is 550 Pa;

The power consumed by the fan is 25.5 kW;

The installed capacity of the pump is 7.5 kW;

Weight (without water) - 4500 kg;

Service life is 10 years.

Effective self-cleaning of the moving nozzle of the SPN scrubber from sticky and hard deposits is not limited by the level of pollution of water and air flows.

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 at the Forum

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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