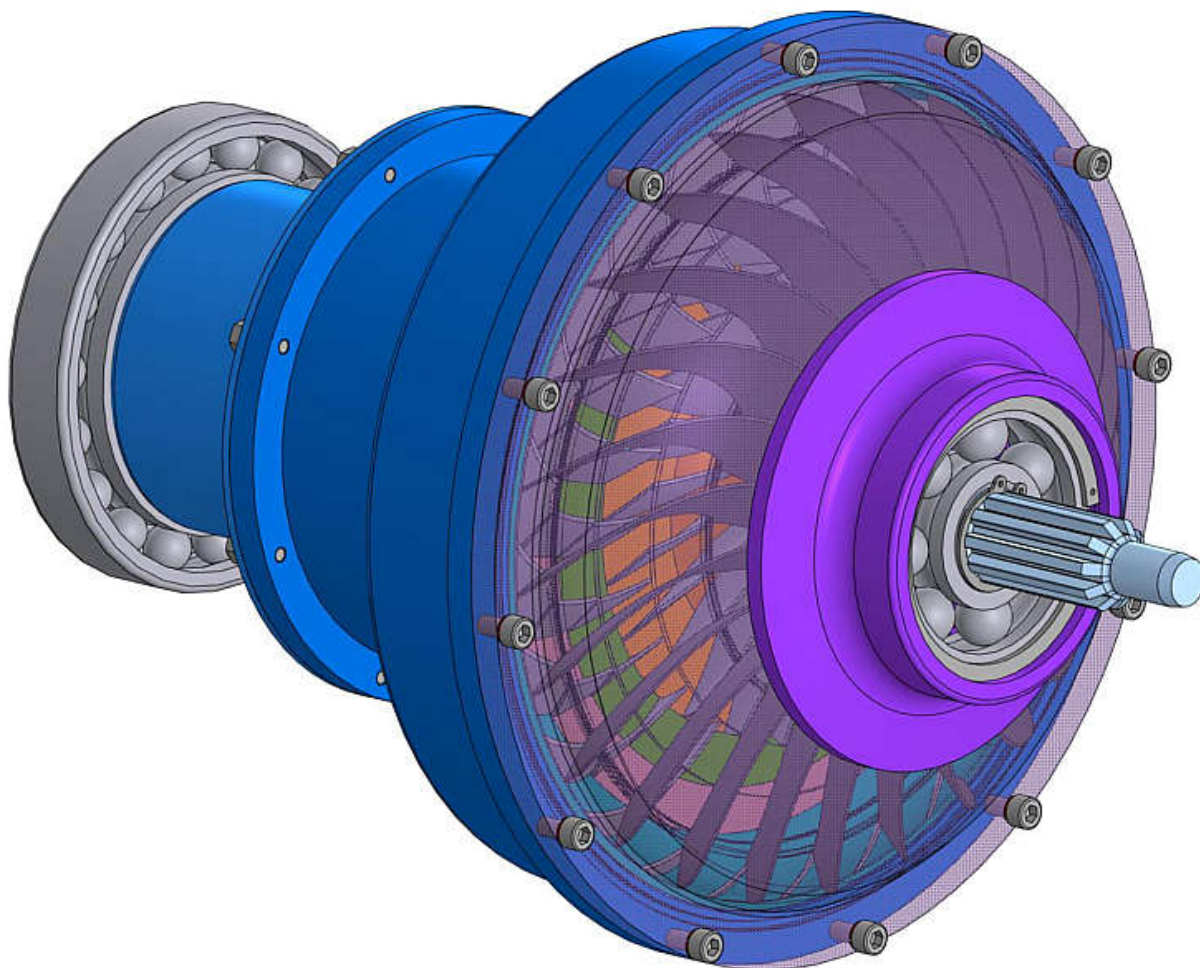


“New invention for automotive industry of China”

Inventor of the hydrodynamic automatic gearbox (HDAGB) is Mikhail Omarov, Russian physicist, who dedicated most of his life to the scientific and practical work with electrical and hydraulic units, vacuum equipment and car engines. He owns Russian and international patents. He is a member of All-Russia Society of Inventors and Rationalizers (e.g. see https://voir.timepad.ru/event/1692462/?bx_sender_conversion_id=8642&utm_source=newsletter&utm_medium=mail&utm_campaign=priglashaem_prinyat_uchastie_v_voirtekhnozavtrake_6_eyulya)

By introduction of his invention of HAGB Mr. Omarov plans to make his contribution to the development of transport engineering industries around the world.

HAGB contains at least two pump wheels, which are round flat disks, on the front peripheral part of which installed firmly are radially directed blades. The first wheel is rigidly connected to the input shaft. The second and subsequent pump wheels, each with a diameter greater than the previous one, are mounted with their own hubs onto the hubs of the preceding pump wheels with the possibility of free rotation on them. On the back side of each pump wheel a centrifugal mechanism is installed to block it with the next pump wheel, and the last pump wheel - with the turbine wheel. A new automatic device with electromagnetic gear shifting has been developed. The turbine wheel is mounted on the input shaft and in the crankcase of the drive device on bearings and is connected to vehicle's reverse mechanism and running gear.



The gearshift system can optionally operate in automatic or manual mode with one click of the switch. And a single-stage planetary gearbox with the following positions has been developed:

- direct transmission, in which no gear is in engagement or mutual rotation,

- direct reduced transmission, which allows within the specified limits (by 2-3 times) to lower the output shaft speed (heavy road conditions), which in turn, doubles the number of switched gears in automatic and manual shifting modes,
- reverse with a reduction of 2-3 times, and even in the reverse the gearbox operates in both automatic and manually controlled modes.

The gearbox is lighter than similar existing analogues by 3-4 times, significantly simpler in design and cheaper, repairable and has an almost unlimited service life.

It allows one to save fuel due to the absence of a constantly working high-pressure hydraulic pump, the absence of rubbing parts in direct transmission.

One and the same gearbox could work on engines of wide range of capacities.

The inventor is looking for a Chinese investor or a partner to mass produce the gearbox for the customers all around the world.

He applied for validation of this invention in China and other leading countries of the world.

The terms and conditions of investment or cooperation are negotiable.

Contact details: mich.omarov@mail.ru; mobile phone: +7-928-507-3881 (in English);

Contact details: info@afdip.com; tel.: 010-82730790 (in Chinese, English and Japanese).