New and Unique !!!

STIRRING DEVICE WITHOUT PROPELLERS

M-Revo™

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Evolutional Stirring Performance

For stirring coating liquid, paint, etc., the stirring devices with propellers have been generally used. However, this Stirring Device of semi-globular structure with openings proves a surprising stirring performance.

Japanese Patentee: EDDY PLUS Co., Ltd.
Saitama, Japan
PROBLEMS IN CONVENTIONAL STIRRING DEVICES

(1) generation of metal particles 
(2) splashing of coating materials or paints and entrainment of air 
(3) cavitation 
(4) paint accumulates in center of container 
(5) difficult to stir the paint in the corner of the container 
(6) other problems in stirring work and quality 

Crown type Stirring Device using conventional technology
ADVANTAGES OF NEW STIRRING DEVICE

(1) highly stable workability and stirring performance
(2) quiet and no bubbling during operation
(3) simple structure → high durability and long life
(4) better stability with higher speed rotation due to a gyroscopic effect
(5) accumulations of deposits which grow right under the stirring device by the eddy current such as turbulence flow or tornado, so that the liquid is stirred to every corners of the container.
PRINCIPLES OF STIRRING DEVICE

(1) When the stirring device rotates, the centrifugal force is given to the fluid in the discharge opening.
(2) Because the fluid is discharged from the discharge opening, the suction opening sucks the fluid.
(3) The eddy current which is generated along with the stirring device is stabilized by the fluid which is discharged from the discharge opening, so that a strong stirring current is generated.

- Flows shown be yellow arrows are the strong stirring currents which are generated by suction of the fluid. A large stirring current is generated as though it is swallowed up by the yellow flows.

- A flow in horizontal direction is generated and the fluid is sucked from the bottom, even if the stirring device approaches from the fluid surface, there is nearly no swallow up of the air, so that no splashing occurs.
APPLICATIONS OF STIRRING DEVICE

Stirring, Mixing and Purification of Liquid and Gas
(1) Paints, Coating Materials
(2) Liquid, Gas
(3) For R&D with Test Tube or Flask
(4) For Foods
(5) Rebirth of Lakes and Marshes
(6) Improvement of Water Quality

Sizes, shapes and materials differ depending on applications. The model in left is the initial model, and the right is the latest one, increasing stirring efficiency by 40%.

Stirring device is installed for stirring 18 l can. No forming of waves on the surface.
POLICY OF LICENSING

(1) Because applications may be very wide range, the technology will be transferred by licensing. (no completed products shall be supplied.)

(2) For licensing the patent, followings shall be investigated:
   - applications for the technology
   - company profile, products, achievement and sales channel & network
   - sales price, cost and profit
   - others

(3) Applicant of PCT Application:
   - IP Management Services Designated Countries in PCT:
     All over the world Especially including: USA, Canada, EPO, Korea, China, India, Thailand, Malaysia, Singapore, Vietnam, etc.