ABSTRACT

The whole Screw Piles System comprise of The Frame (Fig 2A), 2 Motor Boxes (Fig 2B), Shaft (Fig 2I), Screw Socket (Fig 2C), Pipe (Fig 2D), Threaded Bushes (Fig 2E and Fig 2F), Vane (Fig 2G), Drill (Fig 2H), Supporting Structure (Fig 2J), Manifold Block (Fig 2m and Fig 2N) and a Compact Hydraulic Motor (Fig 2K).

The Frame (Fig 2A) encages the 2 Motor Boxes (Fig 2b) contain a Compact Hydraulic Motor (Fig 2K) which includes several hoses that joined to the Manifold Block (Fig 2M, Fig 2N) to control the oil flow and pressure. A Shaft (Fig 2I) attaches on each Motor Boxes (Fig 2K) for directing the Pipes (Fig 2D) movements. In between the Shaft (Fig 2I) and the Pipe is a Screw Socket (Fig 2C) which once the pipe had screwed onto the seabed, it will be detached as it moves along the inner thread line for detachment.

The Threaded Bush (Fig 2E and Fig 2F) were used to attach the pipe together. There are Vanes (Fig 2G), a helical blade shape welded onto the pipe and the Drill (Fig 2H(is attach at the end of the whole pipe. And the Supporting Structure (Fig 2J) is attach in between the 2 pipe for locking the oil and gas pipe line under the seabed.