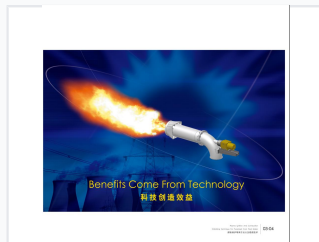


Plasma Ignition System for Coal-Fired Boilers

This plasma ignition system is designed for pulverized-coal fired boilers. It ignites pulverized coal directly using a plasma torch, enhancing combustion stability and efficiency.



ADDITIONAL IMAGES



Overview

Plasma Ignition Technology

The plasma ignition system is a highly efficient solution designed to replace fuel oil during the start-up, shutdown, and low-load combustion stabilization of pulverized coal-fired boilers. By substituting oil with coal, this technology significantly reduces operational costs and fuel consumption in power plants. The system is engineered for reliability, ensuring consistent combustion stability and performance in diverse industrial power generation applications.

Technical Specifications

Core Components

- Plasma torch
- Plasmatron
- Rectifier cabinet
- Control system
- Video camera for flame monitoring
- Thermocouple for temperature measurement

Required Inputs

- Air and primary air mixture
- Compressed air
- Direct cooling water
- Return cooling water

Rectifier Cabinet Power

200 kW

Compliance & Awards

Certifications & Standards

CE Certification • DL/T1127-2010 Power Industry Standard

Patents Held

118 count

Total Patents Applied

41 count

Authorized Patents

11 count

Invention Patents

Industry Recognition

Golden Prize for Inventions (State Intellectual Property Office and WIPO, 2008)