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1. [201921029155](#) "NEUTRAL POWER FACTOR COMPENSATOR CIRCUIT AND OPERATING METHOD THEREOF" IN - 22.01.2021Int.Class [H02M/](#) Appl.No 201921029155 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor Babbajeeh Maloji Jagtap

NEUTRAL POWER FACTOR COMPENSATOR CIRCUIT AND OPERATINGMETHOD THEREOFABSTRACTThe present invention discloses a Neutral Power Factor Compensator (NPFC) circuit and its operating method. The NPFC circuit comprises a controller communicatively coupled to an individual phase of a 3-phase electrical system, a switching module communicatively coupled the controller and at least one of a single-phase capacitor bank and a reactor communicatively coupled to the switching module. Based on a reactive AC power required to take current power factor to unity for the individual phase, the controller produces a switching signal. The switching module operates at least one thyristor switch based on the switching signal and the at least one of the single-phase capacitor bank and the reactor supply the reactive AC power to the individual phase for correcting the current power factor based on the switching signal. The NPFC circuit is connected between neutral of the 3-phase electrical system and the individual phase of the 3-phase electrical system.FIG. 2

2. [29497](#) A SYSTEM AND METHOD FOR PREVENTING, PROTECTING OLTC FROM FIRE AND/OR TRANSFORMER FROM EXPLOSION-SYSTEME ET PROCEDE DE PREVENTION, DE PROTECTION D'UN OLTC CONTRE LE FEU ET/OU D'UN TRANSFORMATEUR CONTRE L'EXPLOSION EG - 21.07.2019Int.Class [H01F 27/14](#) Appl.No P/2010/1131 Applicant سى تى ار مانوفاكٲٲورنيٲ اندستريز ليمٲد. Inventor واٲهاور فيٲايٲكومار كيسانراو

The present invention relates to a system and method for preventing, protecting OLTC from fire and / or preventing, protecting and / or detecting explosion and / or resulting fire of electrical transformer [30] in advance before decomposition of combustible coolant fluid [11] / dielectric oil.-La pr?sente invention concerne un syst?me et un proc?d? destin?s ? la pr?vention, la protection d'un oltc contre le feu et/ou ? la pr?vention, la protection d'un transformateur ? lectrique [30] contre l'explosion et/ou ? la d?tection d'une explosion et/ou d'un incendie en r?sultant dudit transformateur ?lectrique [30], au pr?alable, avant la d?composition du liquide de refroidissement du combustible [11] /de l'huile di?lectrique.

3. [352502](#) DETECTOR DE FUGAS DE FLUIDO. MX - 28.11.2017Int.Class [G01M 3/04](#) Appl.No 2014013197 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor Vijaykumar K. WAKCHAURE

The subject matter disclosed herein relates to fluid leakage detection. More particularly, subject matter relates to a device for detecting fluid leakage in a fluid drain pipe (1) attached to a power transformer device. The device comprises fluid collection compartment (3) attached to bottom of the fluid drain pipe (1) and a fluid level switch (6) is positioned in the fluid collection compartment (3) to generate alarm signal to indicate fluid leakage.

4. [112014027206](#) DISPOSITIVO DE DETECÇÃO DE VAZAMENTO DE FLUIDOS BR - 27.06.2017Int.Class [G01M 3](#) Appl.No 112014027206 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor Vijaykumar, K. WAKCHAURE

dispositivo de detecção de vazamento de fluidos. o objeto aqui divulgado refere-se à detecção de vazamento de fluidos. mais particularmente, o objeto refere-se a um dispositivo de detecção de vazamento de fluidos numa tubulação de drenagem de fluidos [1], ligado a um dispositivo transformador de energia. o dispositivo compreende o compartimento de coleta de fluidos [3] ligado à parte inferior da tubulação de drenagem de fluidos [1], e um sensor de nível de fluidos [6] é posicionado no compartimento de coleta de fluidos [3], para gerar sinal de alarme para indicar vazamento de fluidos.

5. [28282](#) A DEVICE FOR DETECTING FLUID LEAKAGE EG - 28.05.2017Int.Class [G01M 3/02](#) Appl.No P/2014/1746 Applicant سى تى ار مانوفاكٲٲورنيٲ انداستريز ليمٲد. شركة هندية. Inventor واٲكشور, فيٲايٲكومار, كيه

THE SUBJECT MATTER DISCLOSED HEREIN RELATES TO A DEVICE FOR DETECTING FLUID LEAKAGE THROUGH A CLOSED VALVE OR RUPTURE DISE DISPOSED IN FLUID PIPE (1), SAID DEVICE COMPRISING: FLUID COLLECTION COMPARTMENT (3) ATTACHED TO BOTTOM OF THE FLUID DRAIN PIPE (1) FOR COLLECTING LEAKED THROUGH ACLOSED FLUID DRAIN VALVE OR RUPTURE DISE (2),. THE FLUID COLLECTION COMPARTMENT (3) COMPRISES AT LEAST ONE THROUGH HOLE (4) EACH AT TOP AND BOTTOM SIDE, WHEREINAREA SURROUNDING THE THROUGH HOLE (4) OF THE BOTTOM SIDE OF THE FLUID COLLECTION COMPARTMENT (3) IS CONFIGURED AS FLUID COLLECTION AREA (8) TO COLLECT THE LEAKED FLUID., AND BOTTOM SIDE OF THE FLUID COLLECTION COMPARTMENT (3) IS CONNECTED WITH A FLUID DISCHARGE PIPE (5) THAT EXTENDS TILL PREDETERMINED HEIGHT INTO THE FLUID COLLECTION COMPARTMENT (3) THROUGH THE THROUGH HOLE (4),. AT LEAST ONE FLUID LEVEL SWITCH (6) POSITIONED AT A PREDETERMINED LOCATION INSIDE THE FLUID COLLECTION COMPARTMENT (3) TO TRIGGER AN ALARM UPON COLLECTION OF PREDETERMINED AMOUNT OF FLUID IN THE FLUID COLLECTION AREA }8{ TO INDICATE FLUID LEAKAGE.

6. [2016/01717](#) A DEVICE FOR DETECTING FLUID LEAKAGE ID - 18.03.2016Int.Class [G01M 3/02](#) Appl.No P00201407448 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor WAKCHAURE, Vijaykumar, K.

The subject matter disclosed herein relates to fluid leakage detection. More particularly, subject matter relates to a device for detecting fluid leakage in a fluid drain pipe (1) attached to a power transformer device. The device comprises fluid collection compartment (3) attached to bottom of the fluid drain pipe (1) and a fluid level switch (6) is positioned in the fluid collection compartment (3) to generate alarm signal to indicate fluid leakage.

7. **SP14029429** DETECTOR DE FUGAS DE FLUIDO

EC - 30.12.2015

Int.Class G01M 3/02 Appl.No SP201429429 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor WAKCHAURE, Vijaykumar, K.

La materia divulgada en el presente documento se relaciona con detección de fugas de fluido. Específicamente, la materia se relaciona con un detector de fugas de fluido en un tubo de drenaje de fluido [1] conectado a un transformador eléctrico. El detector comprende un compartimento de recolección de fluido [3] conectado a la base del tubo de drenaje de fluido [1], y se ubica un interruptor de nivel de fluido [6] en el compartimento de recolección de fluido [3] a fin de generar una señal de alarma que indique una fuga de fluido.

8. **2187/MUMNP/2014** A DEVICE FOR DETECTING FLUID LEAKAGE

IN - 28.08.2015

Int.Class G01M 3/02 Appl.No 2187/MUMNP/2014 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor WAKCHAURE Vijaykumar K.

The subject matter disclosed herein relates to fluid leakage detection. More particularly subject matter relates to a device for detecting fluid leakage in a fluid drain pipe [1] attached to a power transformer device. The device comprises fluid collection compartment [3] attached to bottom of the fluid drain pipe [1] and a fluid level switch [6] is positioned in the fluid collection compartment [3] to generate alarm signal to indicate fluid leakage.

9. **2014002970** UN DETECTOR DE FUGAS DE FLUIDO A TRAVÉS DE UNA VÁLVULA EN UN TUBO DE DRENAJE DE FLUIDO, QUE COMPRENDE UN COMPARTIMENTO DE RECOLECCIÓN DE FLUIDO CONECTADO A LA BASE DEL TUBO DE DRENAJE PARA LA RECOLECCIÓN DE FLUIDO FUGADO A TRAVÉS DE UNA VÁLVULA DE DRENAJE; UN SISTEMA DE CONTROL DE EXPLOSIÓN DE TRANSFORMADOR, Y UN TRANSFORMADOR.

CL - 17.07.2015

Int.Class G01M 3/02 Appl.No 2014002970 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor WAKCHAURE, VIJAYKUMAR, R.

LA MATERIA DIVULGADA EN EL PRESENTE DOCUMENTO SE RELACIONA CON DETECCIÓN DE FUGAS DE FLUIDO. ESPECIFICAMENTE, LA MATERIA SE RELACIONA CON UN DETECTOR DE FUGAS DE FLUIDO EN UN TUBO DE DRENAJE DE FLUIDO [1] CONECTADO A UN TRANSFORMADOR ELÉCTRICO, EL DETECTOR COMPRENDE UN COMPARTIMENTO DE RECOLECCIÓN DE FLUIDO [3] CONECTADO A LA BASE DEL TUBO DE DRENAJE [1], Y SE UBICA UN INTERRUPTOR DE NIVEL DE FLUIDO [6] EN EL COMPARTIMENTO DE RECOLECCIÓN DE FLUIDO [3] A FIN DE GENERAR UNA SEÑAL DE ALARMA QUE INDIQUE UNA FUGA DE FLUIDO.

10. **PI0906472** SISTEMA E MÉTODO PARA PREVENIR, PROTEGER O OLTC CONTRA FOGO E/OU TRANSFORMADOR CONTRA EXPLOSIÃO

BR - 14.07.2015

Int.Class H01F 27 Appl.No PI0906472 Applicant CTR MANUFACTURING INDUSTRIES LIMITED Inventor Wakchaure, Vijaykumar, Kisanrao

sistema e método para prevenir, proteger o oltc contra fogo e/ ou transformador contra explosão. assim, a presente invenção está relacionada a um sistema e a um método para a prevenção e proteção do oltc contra fogo e/ou prevenção, proteção e/ou detecção de explosões e/ou fogo resultante no transformador elétrico [30] antecipadamente, ou seja, antes da decomposição do fluido refrigerante combustível [11]/óleo dielétrico.

