

Title (en)
Hollow core composite insulator

Title (de)
Verbundisolator mit Hohlkern

Title (fr)
Isolateur composite à noyau creux

Publication
EP 1074999 A1 20010207 (EN)

Application
EP 99115326 A 19990803

Priority
EP 99115326 A 19990803

Abstract (en)
An improved hollow core composite insulator or bushing for use in, for example, a dead tank circuit breaker, is smaller and lighter and offers other advantages over previous designs. The hollow core insulator includes therein a fiber reinforced plastic (FRP) elongated tube that operates to increase the dielectric constant between a conductor and a transition shield. By placing the transition shield external to the hollow core insulator and providing the FRP tube between the conductor and transition shield, the dielectric constant between the shield and conductor is increased thus allowing the inner diameter of the shield and outer diameter of the insulator to be decreased. In addition, the grounded shield may be an integral part of the flange that is mounted to the bushing current transformer of the dead tank circuit breaker thus further reducing the diameter and overall size of the insulator. <IMAGE>

IPC 1-7
H01B 17/28

IPC 8 full level
H01B 17/28 (2006.01)

CPC (source: EP)
H01B 17/28 (2013.01)

Citation (search report)
• [YA] US 4272642 A 19810609 - CLASSON AKE
• [YA] US 5466891 A 19951114 - FREEMAN WILLIE B [US], et al

Cited by
CN108918941A

Designated contracting state (EPC)
CH DE FR LI SE

DOCDB simple family (publication)
EP 1074999 A1 20010207

DOCDB simple family (application)
EP 99115326 A 19990803