

ANSF Kill 15 Militants in 24 Hours: MoI

...(More on P4)...(15)

Afghan Migrant Found Dead in Truck

...(More on P4)...(17)

Only Suicide Bomber Killed in Helmand Explosion: Officials

...(More on P4)...(16)

Woman Shot Dead in Kandahar City: Officials

...(More on P4)...(18)

CAUTIONARY NOTICE

NOTICE is hereby given that CARPI TECH B.V., a company organized and existing under the laws of The Netherlands, with the registered address at Spoorhaven 88, NL-2651 AV Berkel en Rodenrijs, The Netherlands, is the current proprietor of the below mentioned patent.

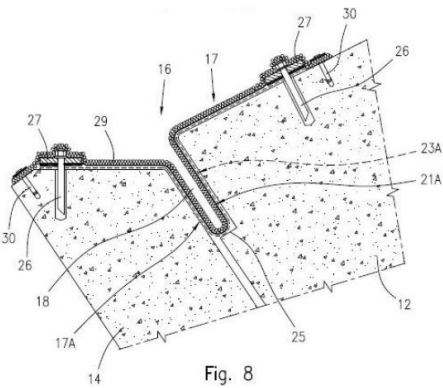
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Inventor : SCUERO Alberto Maria (Italian), c/o CARPI TECH B.V., Spoorhaven 88, NL-2651 AV Berkel en Rodenrijs, The Netherlands

Title: METHOD AND DEVICE FOR COVERING AND WATERPROOFING JOINTS IN HYDRAULIC WORKS

International Patent Application: No. PCT/EP2014/057153 filed on April 9, 2014

Priority: Italian patent No. 1416866 of July 20, 2015



Abstract: A method and a device for covering and waterproofing joints between concrete members (12, 14) of hydraulic works, such as dams, canals, hydraulic galleries and reservoirs. A flexible cover strip (17) comprising a flexible waterproofing membrane (21) in elastomeric material having a first elastic modulus (E1), and at least one flexible support layer (23) in synthetic material having a second elastic modulus (E2) greater than the first elastic modulus (E1) for limiting deformation of the impermeable membrane (21), is straddled between the opposite concrete members (12, 14), for example at vertical joints and/or at longitudinal joints of the hydraulic work.

Claims:

1. A method for covering and waterproofing a gap (18) of a joint (16) between opposite concrete members (12, 14) of an hydraulic work by a cover strip (17) transversely folded and longitudinally extending along the gap (18), fastened to the concrete members (12, 14) along elongated side edges, comprising the steps of:

- providing the cover strip (17) by superimposing at least one flexible waterproofing membrane (21) in elastomeric material having a first elastic modulus (E1), and at least one flexible support layer (23) in textile synthetic material having a second elastic modulus (E2) greater than the first elastic modulus (E1) of the waterproofing membrane (21);
- transversely folding the waterproofing membrane (21) and the support layer (23) of the cover strip

- (17), and laying down the folded strip (17) straddling the gap (18) of the joint (16); and
- sealingly fastening the elongated side edges of the folded cover strip (17) to the concrete members (12, 14) keeping the support layer (23) facing the concrete members (12, 14) of the joint (16) and allowing a relative free movement between the superimposed waterproofing membrane (21) and support layer (23) of the folded cover strip (17).
- The method for covering and waterproofing a joint (16) according to claim 1, characterised by folding into a loop (21A, 23A) a central band of the waterproofing membrane (21) and of the flexible support layer (23), directly inside the gap (18) of the joint (16) between said concrete members (12, 14) of the hydraulic work (10).
- The method for covering and waterproofing a joint (16) according to claim 1, characterised by folding into a loop (21A, 23A) a central band of the waterproofing membrane (21) and of the flexible support layer (23), outside the joint (16) successively threading the folded cover strip (17) into the gap (18) of the joint (16).
- The method for covering and waterproofing a joint (16) according to anyone of the preceding claims, characterised by configuring the support layer (23) with side wings (23B) frictionally extending along contact surfaces of the concrete members (12, 14) of the hydraulic work (10).
- The method for covering and waterproofing a joint according to anyone of the preceding claims, characterised by overlapping a further protective textile layer (29) to the waterproofing membrane (21), and folding into a loop the further protective textile layer (29) against the waterproofing membrane (21) inside the joint (16).
- The method for covering and waterproofing a joint according to the preceding claims, characterised by folding into a loop the waterproofing membrane (21), the support layer (23) and the protective textile layer (29) while maintaining them in contact with one another.
- A device suitable for covering and waterproofing a gap (18) of a joint (16) between concrete members (12, 14) in hydraulic works (10) according to the method of one or more claims 1 to 6, in which the cover device (17) comprises at least one waterproofing membrane (21) in elastically yieldable elastomeric material and a textile support layer (23) both sealingly fixed along their longitudinal edges to the concrete members (12, 14) of the joint (16), characterised in that the cover device (17) consists of:
 - a flexible cover strip (17) comprising a flexible waterproofing membrane (21) superimposed to a flexible support layer (23) on at least one side of the waterproofing membrane (21), in which the waterproofing membrane (21) and the support layer (23) comprise a longitudinal band folded in a loop (21A, 23A) longitudinally extending to the joint (16); and
 - in which the flexible support layer (23) is configured with a an elastic modulus (E2) higher than elastic modulus (E1) of the impermeable membrane (21).
- The device for covering and waterproofing a joint (16) according to claim 1, characterised in that the elastic modulus (E2) of the support layer (23) is from 40 to 70 times and more higher than the elastic modulus (E1) of the waterproofing membrane (21).
- The device for covering and waterproofing a joint (16) according to claim 7, characterised in that the elastic modulus (E1) of the waterproofing membrane (21) is comprised between 0,010 and 0,030 GPa at ambient temperature, while the elastic modulus of the support layer (22) is comprised between 2 and 8 GPa.
- The device for covering and waterproofing a joint (16) according to claim 7, characterised in that the flexible support layer (23) extends with side wings (23B), frictionally contacting facing surfaces of said concrete members (12, 14) of the hydraulic work (10).
- The device for covering and waterproofing a joint (16) according to claim 7 characterised in that the support layer (23) is consisting of a fiber reinforced geotextile.

Outlook Horoscope

Aries (Mar. 22-Apr.20)



You could hold such idealistic expectations today that nothing in the real world will satisfy your ambitions. Fortunately, your fate is in your own hands because you can change the game now by changing your mind about what you want. You don't have to settle for anything less if you simply re-frame your idea of what makes you happy. Touching people with your generous heart is more meaningful.

Taurus (Apr.21-May 20)



Putting on a winning performance for your friends or family seems like a wonderful way to continue the holiday festivities. But you might inadvertently create unnecessary waves by taking over and doing everything your way. Considering someone's preferences may not be enough to smooth over any ruffled feathers now. The real lesson is that this doesn't need to be a one-person show.

Gemini (May 21-June 20)



You may be running around in circles preparing for a social gathering, but you're also seeking a more spiritual approach to the holiday season. You're often the life of the party because of your witty conversation, but now you're searching for something more than sparkly lights and transient smiles. You can transform this time by slowing down and focusing on the heart connections between people instead of making everyone laugh.

Cancer (June 21-July 20)



Spending lots of money is not the only way to show others how much you care. However, the demonstrative Leo Moon's presence in your 2nd House of Money might tempt you to spring for an extravagant display anyhow. Nevertheless, if you want to be taken seriously today, don't give in to an overly dramatic gesture of affection. Obviously, the bright lights could draw an extra round of applause.

Leo (July 21-Aug. 21)



Your resolute follow-through is your ticket to success today because fantastic ideas about entertaining coworkers or celebrating with your family won't be sufficient unless you deliver something special. It's essential to plan every detail out in advance, since there are too many variables in the mix now. Of course, there will always be factors outside of your control.

Virgo (Aug. 22-Sep 22)



Your cool ability to minimize the end-of-the-year excitement might make others wonder if your behavior is Scrooge-like. However, closer examination reveals that you're simply saving the best celebration for last. You're happy to ride a building wave of anticipation right into the New Year. Instead of talking about your intentions today, let your actions speak for themselves. Open up your heart and demonstrate your affection while you have the chance.

Libra (Sep 23-Oct. 22)



Hanging out with those you love is more fun than anything else now. However, it may be challenging to reconcile your desire to break free of some holiday traditions this year while still remaining open to what the rest of the group wants. Although you might not see a clear solution to your dilemma, remember there's no single correct path to take today.

Scorpio (Oct.23-Nov.22)



There may be an established schedule of events today and everyone is depending on you to adhere to the plan. Unfortunately, there's a small margin for error today because the fixed Leo Moon in your 10th House of Responsibility gives you a very specific notion of what you need to do. But even if you suddenly have a different impulse, it's wiser now to just let it pass.

Sagittarius (Nov.23-Dec.20)



There are many ways to ensure the holidays are a memorable experience for all, yet they will be over so fast that you need to fine-tune your options quickly. Fortunately, you are an instant inspiration to your friends and family because your joyful attitude is so contagious. Although you may have already handed out traditional tokens of affection, you can still create a positive impact by shifting your focus onto establishing lasting emotional connections.

Capricorn (Dec.21-Jan19)



You're weary of being the one who always takes charge when no one else steps up to the plate. But no one seems to realize how much this external pressure weighs on you. However, you almost don't care that others are relying on you. Instead of just burying your feelings, talk to someone you trust. Your anxiety will be less of a nuisance if you can get your concerns off your chest.

Aquarius (Jan 20-Feb.18)

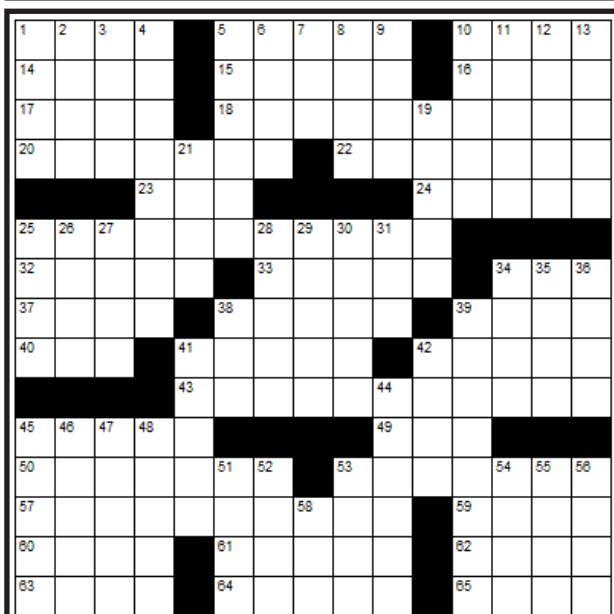


You may experience a perplexing series of conflicting desires today. The big-hearted Leo Moon is hanging out in your 7th House of Others, reflecting your need to be actively involved in your relationships now. But several planets in hardworking Capricorn are traveling through your 12th House of Secrets, urging you to stay out of sight. Although wanting to be seen and being invisible are mutually exclusive.

Pisces (Feb.19-Mar.20)



You don't mind jumping in and helping your family, friends, or community as long as you feel like you're a valuable member of a team. But you might not be as eager to contribute to the cause if you are sitting on the sidelines. Fortunately, others seem to go out of their way to include you today, making it more fun for you to participate. Focusing on an altruistic goal allows you to enjoy a true sense of camaraderie.



Across

- 1. Winglike, 5. Ceased, 10. Writing implements, 14. Memo, 15. Unsophisticated, 16. Balm ingredient, 17. Anagram of "Loot", 18. Likeness, 20. Jeopardize, 22. Not excessive, 23. Henpeck, 24. Verse, 25. Spontaneous, 32. Well-known, 33. 50s singer Buddy, 34. Faster than light, 37. Prompted, 38. Hill, 39. Small salmon, 40. Venomous snake, 41. Consumer of food, 42. Hot chocolate, 43. Cremation chamber, 45. Stupefy, 49. Dawn goddess, 50. Unmindful, 53. Hotel attendant, 57. Flood, 59. Overhang, 60. Pear-shaped instrument, 61. Anagram of "Coast", 62. You (archaic), 63. Perished, 64. Hinder, 65. Went under.

Down

- 1. Against, 2. Weaving machine, 3. At the peak of, 4. Yielded, 5. A naval rank, 6. Found on a finger, 7. Not brilliant, 8. Wicked, 9. Sandwich shop, 10. Terrace, 11. Wash out with a solvent, 12. Connecting points, 13. Squalid, 19. Suggest, 21. Police action, 25. Ancient Peruvian, 26. French for "We", 27. Stair, 28. Water park slide, 29. Clan emblem, 30. Extreme, 31. Beer, 34. Central points, 35. You (archaic), 36. Rich soil, 38. Tavern, 39. Body armor, 41. Toward the outside, 42. Not hot, 44. Very small, 45. Construct, 46. Boredom, 47. Fry briefly, 48. Possessed, 51. Rodents, 52. French for "State", 53. Thunder, 54. Laugh, 55. Baking appliance, 56. Glance, 58. Frozen.

Yesterday's Solution

PROS ERGO NAPE
LAVA SEERS AWED
AGED SERAC TOAD
TIARNS PATEFULLY
WIEEP HONOR
MAESTRO REGALL
EMISSARY ILLIAC
TAG MEALY CPTI
ASHEN YOUNGEST
STAIRS BLARNEY
SCOOT REMIT
VIARITTES EDICT
OBOE ORRIS DOOR
ILLLS RENTS LURE
PELTY ESSE ESNE

antiseptic, awake, brood, chalk, countdown, cous-cous, cubs, dream, drift, fatigue, flair, flight, freedom, fruit, gloomy, grass, guide, hies, humid, hurl, hurry, image, label, laugh, neutral, otiose, pilot, ragout, rowdy, ruder, sleep, straw, style.

B C O U S C O U S Q S H H
D R I F T L A U G H T U U
D C O U N T D O W N R M R
R A G O U T D P F L A I R
G R U D D E R R R O W D Y
F U P A N T I S E P T I C
L S I S T Y L E E A E L O
I E L D Z E U E D H M H T
G F O T E G L O O M Y I I
H U T H I S A I M A G E O
T L W T J R B G R A S S S
A W A K E N E U T R A L E
E F R U I T L D C H A L K