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Susil Kumar Jena* (susil_kumar@yahoo.co.uk), Plot No-170, Sector-5, Niladri Vihar,
Chandrasekharapur, Bhubaneswar, Odisha 751021, India. *The Diophantine equation*
 $mA^2 + nB^4 = C^3$.

If m , n and k are three non-zero integers which are pair-wise co-prime such that $(m + n) = k^3$, then the Diophantine equation $mA^2 + nB^4 = C^3$ has an infinite number of integral solutions for (A, B, C) . In this paper, we apply a technique to generate these solutions. Again, we give the conditions when mA , nB and C are pair-wise co-prime. (Received September 17, 2019)