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The specific features of bathing type glass furnaces operation connected with destruction of a fire-resistant laying during its interacting with melt of glass melt are observed. The research technique is offered and the statement of problem for research of a thermal condition of a fence using a heat insulation and the air cooling is formulated. This research technique considers the dynamics of the corrosion destruction of refractories of a glass furnace basin.

[1, 2],

20 %,

[3, 4, 5].

[1, 2, 5].

[1, 2, 5, 6, 7].

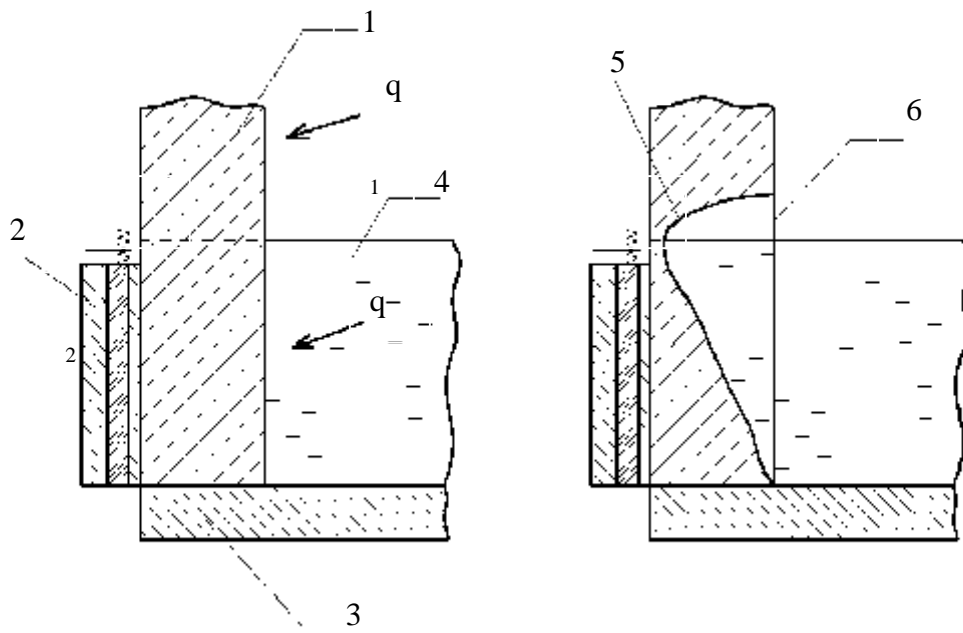
[1, 8].

[1, 8].

[3, 5, 7]

[8].

[4, 5]



— () ; () ; 3 — ;
 1 — ; 2 — ; 3 — ;
 4 — ; 5 — ; 6 —

: $q -$
 , $/^2$; $q -$
 , $/^2$, 1, 2 —

:

$$\frac{\partial}{\partial x} \left[\gamma(t) \frac{\partial t}{\partial x} \right] + \frac{\partial}{\partial y} \left[\gamma(t) \frac{\partial t}{\partial y} \right] = c(t) \dots (t) \frac{\partial t}{\partial \tau} \quad (1)$$

$$t = f(x, y, \tau)$$

$$q = f(x, y, \tau)$$

$$\alpha(x, y, \tau, t) (t - t_0) = \lambda(t) \frac{\partial t}{\partial \tau}$$

(1)

W,

$$W = dL / d\tau, \quad (2)$$

L -

d\tau

$$dL = W d\tau, \quad (3)$$

$$T = \int_0^L dL / W(L). \quad (4)$$

: L -

[3, 4, 9]:

$$W = e^{(A^* - B/t_B^*)}, \quad (5)$$

$$A^* = A \ln 10, \quad B^* = B \ln 10 - , \quad t_B^* = t_B + 273$$

, t_B

A^* B^*

[3, 4, 9].

t_B

),

t_B

q
[5].

q

[10],

1 2

$$q = \frac{t_1 - t_2}{1/r_1 + u/\} + 1/r_2} \quad (6)$$

t_1 t_2
, δ , λ

[11],

$u_i / \}_i$

:

$$q = \frac{t_1 - t_2}{\frac{1}{r_1} + \left(\sum_{i=1}^n \frac{u_i}{\}_i + \frac{u}{\} \right) + \frac{1}{r_2}} \quad (7)$$

t ,

q , (7) :

$$t - t_2 = q \left(\left(\sum_{i=1}^n \frac{u_i}{\}_i + \frac{u}{\} \right) + \frac{1}{r_2} \right) \quad (8)$$

(, u_i , $\}_i$),

[12].

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